

FIG. 1

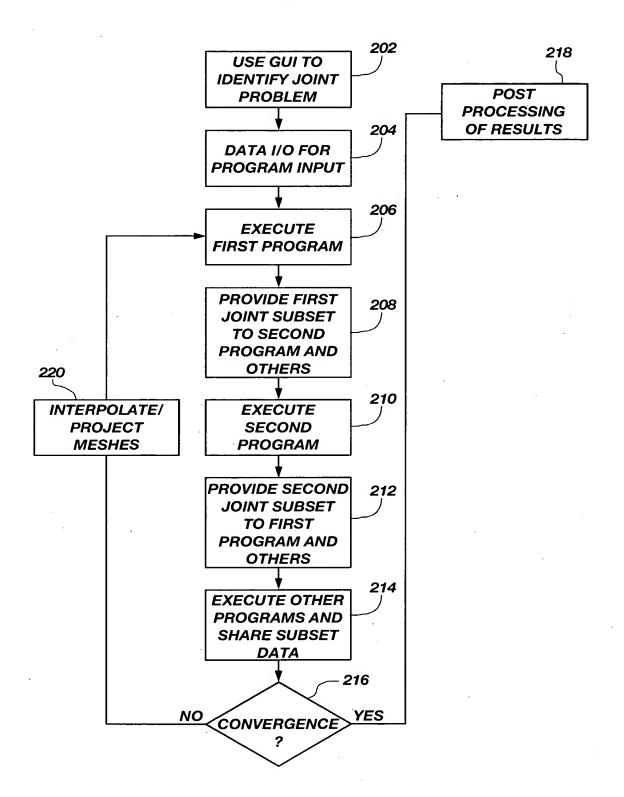


FIG. 2

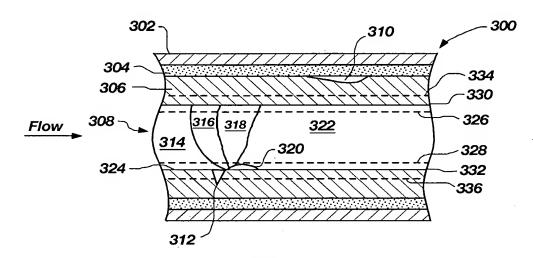


FIG. 3

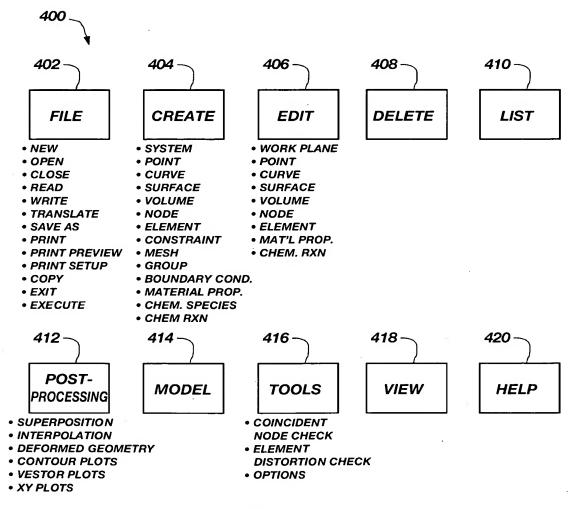


FIG. 4



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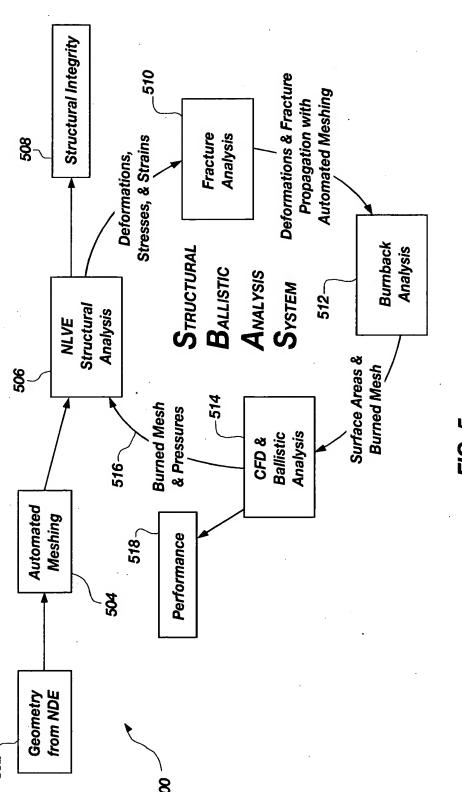


FIG.

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#### Node Key:

- ★ Corner and Mid-side node (Required)
- O Mid-side node (Optional)
- + Face center node (Optional)
- ♦ Element center node (Optional)

TYPE	LINEAR	PARABOLIC	VARIABLE
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Triangle Face 0=0,1, 3 Face 1=1,2, 4 Face 2=2,0, 5	2 0 1	5 * * * * * * * * * * * * * * * * * * *	
Quadrilateral Face 0=0,1, 4 Face 1=1,2, 5 Face 2=2,3, 6 Face 3=3,0, 7	3	7 × × 5 × 5	+ + + + + + + + + + + + + + + + + + + +
Tetrahedron Face 0=0,2,1 6,5,4 Face 1=0,1,3 4,8,7 Face 2=1,2,3 5,9,8 Face 3=2,0,3 6,7,9	02	7 8 8 7 8 8 7 5	
Wedge Face 0=0,2,1 8,7,6 Face 1=3,4,5 9,10,11 Face 2=0,1,4,3 6,13,9,12,15 Face 3=1,2,5,4 7,14,10,13,16 Face 4=2,0,3,5, 8,12,11,14,17	3 4 5 0 2 2	11 10 12 9 13 14 12 8 7	17+ 16 0 15+ 0 -
Brick Face 0=0,3,2,1 11,10,9,8,21 Face 1=4,5,6,7, 12,13,14,15,22 Face 2=0,1,5,4, 8,17,12,16,23 Face 3=1,2,6,5, 9,18,13,17,24 Face 4=2,3,7,6, 10,19,14,18,25 Face 5=3,0,4,7, 11,16,15,19,26	0 1 2	15 14 19 13 16 12 10 18 11 17 8	26+1 240 23+1 240 23+1 240 23+1 240 23+1 240 23+1 240

FIG. 6

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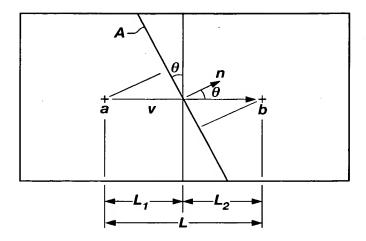


FIG. 7

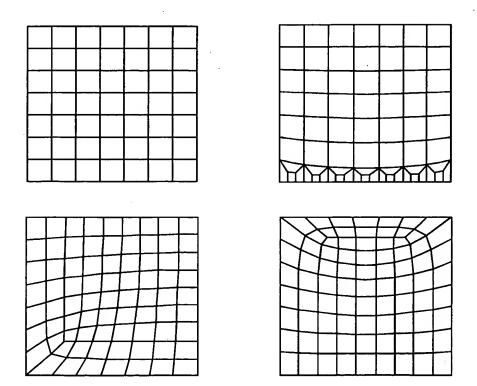
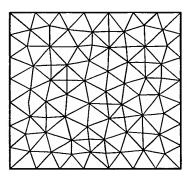


FIG. 8



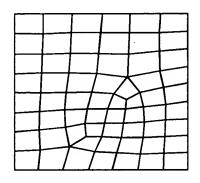
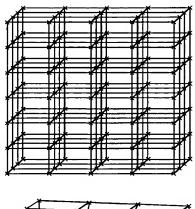
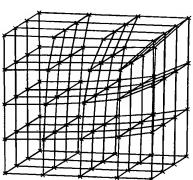
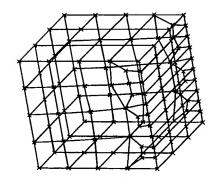


FIG. 9







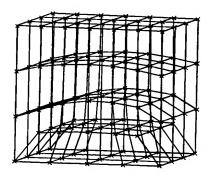


FIG. 10

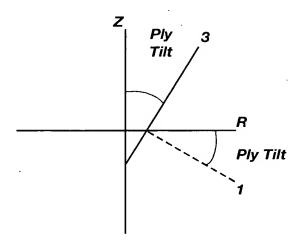


FIG. 11

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Name	Size	Туре	Modified	4
☐ Ccm		File Folder	9/21/01 9:21 AM	
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_inst32i.ex_	294KB	EX_File	11/19/97 4:05 PM	- 1 '
_isdel.exe	8KB	Application	11/19/97 4:05 PM	
_setup.dll .	11KB	Application Extension	11/19/97 4:08 PM	
_sys1.cab	187KB	Cabinet	9/21/01 8:29 AM	- 1
_user1.cab	50KB	Cabinet	9/21/01 8:29 AM	1
Data.tag	1KB	TAG File	9/21/01 8:29 AM	
data1.cab	129KB	Cabinet	9/21/01 8:29 AM	- 1
lang.dat	5KB	Movie Clip	5/30/97 11:31 AM	
layout.bin	1KB	BIN File	9/21/01 8:29 AM	ı
Mscreate.dir	0KB	Macromedia Director	9/26/00 12:45 PM	
os.dat	1KB	Movie Clip	5/6/97 2:15 PM	ı
py152.exe	4,911KB	Application .	7/16/99 10:54 AM	
setup.bmp	81KB	Bitmap Image	9/17/01 11:32 AM	- 1
] Setup.exe	59KB	Application	11/19/97 4:09 PM	
Setup.ini	1KB	Configuration Settings	9/21/01 8:29 AM	
Setup.ins	58KB	Internet Communicati	9/21/01 8:28 AM	
setup.lid	1KB	LID File	9/21/01 8:29 AM	
win32all-125.exe	2,953KB	Application	2/22/00 10:51 AM	L

FIG. 12

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CCM.bat j	2KB	MS-DOS Batch File	9/19/01 3:08 PM	
CCM.exe	365KB	Application	8/9/01 11:00 AM	
CCMUser.doc	19KB	Microsoft Word Doc	9/19/01 9:35 AM	
CCMW.exe	276KB	Application	9/19/01 2:56 PM	
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FIG. 13

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CDCAUser.doc			19KB	Microsoft Word Doc	9/19/01 9:34 AM	
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FIG. 14

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

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[][Doc			File Folder	9/21/01 9:21 AM	$ \Box$
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Source			File Folder	9/21/01 9:21 AM	
☐ Test			File Folder	9/21/01 9:21 AM	
error.wav		25KB	Wave Sound	8/3/96 1:00 AM	
Fem.exe		4,365KB	Application	9/21/01 8:21 AM	
FEM.pyd		1,652KB	PYD File	9/21/01 8:18 AM	
FemBuilderInstallationInstructions.doc		273KB	Microsoft Word Doc	9/19/01 3:17 PM	
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FIG. 15

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CDA Problem-Change Report.dot		40KB	Microsoft Word Tem	9/18/01 7:25 AM	П
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FIG. 16

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

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FEMBuilderTest.doc	168KB	Microsoft Word Doc	9/18/01 7:09 AM	
FEMBuilderTestCoincidentNode_1.doc	43KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestConstrain2d_1.doc	79KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestConstrain2d_2.doc	76KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestConstrain2d_3.doc	77KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestConstrain3d_1.doc	117KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestConstrain3d_2.doc	91KB	Microsoft Word Doc	9/20/01 10:38 AM	1.
FEMBuilderTestConstrain3d_3.doc	102KB	Microsoft Word Doc	9/20/01 10:38 AM	
FEMBuilderTestCopyPrint_1.doc	96KB	Microsoft Word Doc	9/20/01 10:38 AM	1
FEMBuilderTestCopyPrint_2.doc	28KB	Microsoft Word Doc	9/20/01 10:38 AM	1
FEMBuilderTestCreateBC_1.doc	111KB	Microsoft Word Doc	9/20/01 10:38 AM	- 1
FEMBuilderTestCreateBC_10.doc	49KB	Microsoft Word Doc	9/18/01 7:09 AM	- 1
FEMBuilderTestCreateBC_11.doc	49KB	Microsoft Word Doc	9/18/01 7:09 AM	
FEMBuilderTestCreateBC_12.doc	98KB	Microsoft Word Doc	9/20/01 10:38 AM	- 1
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FEMBuilderTestCreateBC_9.doc	48KB	Microsoft Word Doc	9/18/01 7:09 AM	▼
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FIG. 17

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Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

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Name	Size	Туре	Modified	<b>A</b>
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FIG. 19

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FEMBuilderTestEditWorkplane_2.doc	42KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestExecuteAbaqus_1.doc	36KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestExecuteCCM_1.doc	32KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestExecuteCDCA_1.doc	33KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestExecuteFluent_1.doc	37KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestExecuteRecess_1.doc	33KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestFemCreate_1.doc	80KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestFemCreateGroup.doc	49KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestFemDelete_1.doc	93KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestFemDelete_2.doc	36KB	Microsoft Word Doc	9/18/01 7:10 AM	
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FEMBuilderTestGeometryDelete_1.doc	154KB	Microsoft Word Doc	9/18/01 7:10 AM	
FEMBuilderTestGeometryEditColor_1.doc	175KB	Microsoft Word Doc	9/18/01 7:10 AM	
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FEMBuilderTestInterfaceRdSinda_2.doc	28KB	Microsoft Word Doc	9/18/01 7:11 AM	
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FEMBuilderTestInterfaceWrRecess_5.doc	46KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestInterfaceWrSinda_1.doc	28KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestInterfaceWrSinda_2.doc	28KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestInterfaceWrTexChem_1.doc	28KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestInterpolateResults_1.doc	50KB	Microsoft Word Doc	9/18/01 7:11 AM	▼
210 object(s)   13.6MB	(Disk free space: 0	bytes) My Compu	ıter	

FIG. 21

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FEMBuilderTestModelSweep_2.doc	62KB	Microsoft Word Doc	9/18/01 7:11 AM	l
FEMBuilderTestModelSweep_3.doc	49KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestModelSweep_4.doc	62KB	Microsoft Word Doc	9/18/01 7:11 AM	
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FEMBuilderTestMoveCopy_10.doc	63KB	Microsoft Word Doc	9/18/01 7:11 AM	
FEMBuilderTestMoveCopy_11.doc	52KB	Microsoft Word Doc	9/18/01 12:26 PM	
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FEMBuilderTestMoveCopy_3.doc	56KB	Microsoft Word Doc	9/18/01 12:26 PM	

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FIG. 23

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FIG. 24

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.IUS

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FEMBuilderTestStandardFluidCFD1.doc	36KB	Microsoft Word Doc	9/18/01 7:12 AM	
FEMBuilderTestStandardHeat0.doc	44KB	Microsoft Word Doc	9/18/01 7:12 AM	
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FIG. 25

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FEMBuilderTestThermalAblation_2.doc 100KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestToolsOptions_1.doc 28KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewBlankUnblank_1.doc 65KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewDisplaySettings_1.doc 252KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_1.doc 41KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_2.doc 228KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_3.doc 69KB Microsoft Word Doc 9/18/01 7:12 AM	FEMBuilderTestSubModel 3.doc	54KB	Microsoft Word Doc	9/18/01 7:12 AM	
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FEMBuilderTestViewBlankUnblank_1.doc 65KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewDisplaySettings_1.doc 252KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_1.doc 41KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_2.doc 228KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_3.doc 69KB Microsoft Word Doc 9/18/01 7:12 AM	FEMBuilderTestThermalAblation 2.doc	100KB	Microsoft Word Doc	9/18/01 7:12 AM	
FEMBuilderTestViewDisplaySettings_1.doc 252KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_1.doc 41KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_2.doc 228KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_3.doc 69KB Microsoft Word Doc 9/18/01 7:12 AM	FEMBuilderTestToolsOptions 1.doc	28KB	Microsoft Word Doc	9/18/01 7:12 AM	
FEMBuilderTestViewDisplaySettings_1.doc 252KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_1.doc 41KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_2.doc 228KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_3.doc 69KB Microsoft Word Doc 9/18/01 7:12 AM	FEMBuilderTestViewBlankUnblank 1.doc	65KB	Microsoft Word Doc	9/18/01 7:12 AM	
FEMBuilderTestViewOrientation_1.doc       41KB       Microsoft Word Doc       9/18/01 7:12 AM         FEMBuilderTestViewOrientation_2.doc       228KB       Microsoft Word Doc       9/18/01 7:12 AM         FEMBuilderTestViewOrientation_3.doc       69KB       Microsoft Word Doc       9/18/01 7:12 AM		252KB	Microsoft Word Doc	9/18/01 7:12 AM	
FEMBuilderTestViewOrientation_2.doc 228KB Microsoft Word Doc 9/18/01 7:12 AM FEMBuilderTestViewOrientation_3.doc 69KB Microsoft Word Doc 9/18/01 7:12 AM		41KB	Microsoft Word Doc	9/18/01 7:12 AM	
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-	_	69KB	Microsoft Word Doc	9/18/01 7:12 AM	
	FEMBuilderTestViewScreenOptions_1.doc	59KB	Microsoft Word Doc	9/18/01 7:12 AM	
	O object(s) 13.6MB (Disk	free space: 0	bytes)	ıter	

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File Edit View Go Favorites Tools He	lp			
Name	Size	Туре	Modified	
IFEMBuilderPython.doc	410KB	Microsoft Word Doc	9/17/01 11:34 AM	_   T
FEMBuilderSolvers.doc	23KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderSolversLess2D.doc	· 400KB	Microsoft Word Doc	9/17/01 11:34 AM	Г
FEMBuilderTraining.doc	597KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUser.doc	111KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAbaqusInterface.doc	54KB	Microsoft Word Doc	9/17/01 11:34 AM	ŀ
FEMBuilderUserAnsysInterface.doc	51KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAppendixAbaqusSupport.doc	111KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAppendixAnsysSupport.doc	173KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAppendixElementLibrary.doc	256KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAppendixMatProperties.doc	40KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAppendixSelection.doc	65KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserAscharInterface.doc	24KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserCDCA-CCMInterface.doc	39KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserChemicalProperties.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserCreateFEM.doc	102KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserCreateGeometry.doc	38KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserDeleteFEM.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM	- 1
FEMBuilderUserDeleteGeometry.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM	Í
FEMBuilderUserEditFEM.doc	46KB	Microsoft Word Doc	9/17/01 11:34 AM	]
FEMBuilderUserEditGeometry.doc	32KB	Microsoft Word Doc	9/17/01 11:34 AM	ı
FEMBuilderUserExecution.doc	48KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM	
44 object(s) 3.98M	B (Disk free space: 0	bytes) My Comp	uter	

FIG. 27

File Edit View Go Favorites Tools Help			Taa iiri a	<u> </u>
ame	Size	Туре	Modified	
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserGridGenInterface.doc	23KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserIdeasMSInterface.doc	30KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserIntroduction.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserListFEM.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserListGeometry.doc	26KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserMaterialProperties.doc	29KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserMeshGeneration.doc	148KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserOverview.doc	41KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserPatranInterface.doc	64KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserPostFractureMechanics.doc	181KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserPostResultCalculation.doc	28KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserPostResultDisplay.doc	40KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserPostXYPlotParameters.doc	27KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserReadSharpInterface.doc	26KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserRecessInterface.doc	45KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserSindaInterface.doc	42KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserSinGenInterface.doc	23KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserTexChemInterface.doc	24KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserThermalAblation.doc	306KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserTools.doc	151KB	Microsoft Word Doc	9/17/01 11:34 AM	
FEMBuilderUserView.doc	30KB	Microsoft Word Doc	9/17/01 11:34 AM	

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File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	
iCExecute.py	9KB	Python File	9/17/01 11:34 AM	
CExecute-Abaqus.py	8KB	Python File	9/17/01 11:34 AM	
CExecuteFluent.py	13KB	Python File	9/17/01 11:34 AM	
CSolve.py	26KB	Python File	9/17/01 11:34 AM	
CSolveCoupled.py	20KB	Python File	9/17/01 11:34 AM	
CSolveFSI.py	2KB	Python File	9/17/01 11:34 AM	
CSolveFSILess 2D.py	9KB	Python File	9/17/01 11:34 AM	
FEMHostTableExample.txt	2KB	Text Document	9/19/01 8:36 AM	
FEMHostTable.txt	3KB	Text Document	9/19/01 8:35 AM	
FEMPythonExec.py	28KB	Python File	9/17/01 11:34 AM	
FEMPythonFilel0.py	12KB	Python File	9/17/01 11:34 AM	
FEMPythonTools.py	13KB	Python File	9/17/01 11:34 AM	.
2 object(s)	sk free space: 0 t	oytes) DMy Con		<u> </u>

FIG. 29

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<u>File</u> <u>E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u>	avorites <u>T</u> ools	<u>H</u> elp			
Name		Size	Туре	Modified	A
IFACLIB !			File Folder	9/121/01 9:21 AM	
FEMBuilder			File Folder	9/121/01 9:21 AM	
FEMLib			File Folder	9/121/01 9:21 AM	
FEMPython			File Folder	9/121/01 9:21 AM	
PythonLib			File Folder	9/121/01 9:21 AM	
SciEngLib			File Folder	9/121/01 9:21 AM	
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object(s)	46	i.OKB (Disk free space: 0 b	ytes) DMy Com	puter	

FIG. 30

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

File Edit View Go Favorites Tools Help	·-			
Name	Size	Туре	Modified	ī
ArbArray.hpp	10KB	HPP File	9/17/01 11:30 AM	Ŧ
ArbBdrySeg.hpp	6KB	HPP File	9/17/01 11:30 AM	
ArbBSpline2D.cpp	24KB	CPP File	9/17/01 11:30 AM	ı
ArbBSpline2D.hpp	8KB	HPP File	9/17/01 11:30 AM	
ArbCoord2D.hpp	12KB	HPP File	9/17/01 11:30 AM	
ArbFeasableRegion.cpp	10KB	CPP File	9/17/01 11:30 AM	
ArbFeasableRegion.hpp	5KB	HPP File	9/17/01 11:30 AM	-
ArbGeom2DMixIn.cpp	10KB	CPP File	9/17/01 11:30 AM	-
ArbGeom2DMixIn.hpp	2KB	HPP File	9/17/01 11:30 AM	
ArbHashTable.hpp	35KB	HPP File	9/17/01 11:30 AM	
ArbHeap.hpp	16KB	HPP File	9/17/01 11:30 AM	
ArbKDTree2D.cpp	16KB	CPP File	9/17/01 11:30 AM	
ArbKDTree2D.hpp	9KB	HPP File	9/17/01 11:30 AM	
ArbMsh.hpp	5KB	HPP File	9/17/01 11:30 AM	
ArbMshCleanup.cpp	31KB	CPP File	9/17/01 11:30 AM	
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM	
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM	
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM	
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM	
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM	
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM	
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM	- 1
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM	ı

FIG. 31

<u>File</u> <u>Edit</u> <u>View</u> <u>Go</u> <u>Favorites</u> <u>Tools</u>	<u>H</u> elp			
Name	Size	Туре	Modified	$\Box$
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM	F
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM	
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM	Γ
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM	
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM	
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM	
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM	
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM	
ArbMshSmooth2D.hpp	18KB	HPP File	9/17/01 11:30 AM	
ArbMshTopo2D.cpp	92KB	CPP File	9/17/01 11:30 AM	
ArbMshTopo2D.hpp	54KB	HPP File	9/17/01 11:30 AM	
ArbQuadTree.cpp	26KB	CPP File	9/17/01 11:30 AM	
ArbQuadTree.hpp	14KB	HPP File	9/17/01 11:30 AM	
ArbQueue.hpp	6KB	HPP File	9/17/01 11:30 AM	
ArbRectangle.hpp	3КВ	HPP File	9/17/01 11:30 AM	
ArbRmshRegion2D.cpp	286KB	CPP File	9/17/01 11:30 AM	
ArbRmshRegion2D.hpp	15KB	HPP File	9/17/01 11:30 AM	
ArbSet.cpp	26KB	CPP File	9/17/01 11:30 AM	
ArbSet.hpp	, 8KB	HPP File	9/17/01 11:30 AM	
ArbSmallSet.hpp	4KB	HPP File	9/17/01 11:30 AM	
FACLib.dsp	6KB	DSP File	9/17/01 11:30 AM	
โ FACLib.dsw	1KB	DSW File	9/17/01 11:30 AM	L

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File Edit View Go Favorites	Tools <u>H</u> elp				
Name		Size	Туре	Modified	
ires I			File Folder	9/21/01 9:21 AM	F
CCoordinateInput.cpp		9KB	CPP File	9/17/01 11:31 AM	
CCoordinateInput.h		2KB	H File	9/17/01 11:31 AM	
CFemDBUtil.cpp		8KB	CPP File	9/17/01 11:31 AM	
CFemDBUtil.h		1KB	H File	9/17/01 11:31 AM	
GGridControl.cpp		13KB	CPP File	9/17/01 11:31 AM	
GGridControl.h		4KB	H File	9/17/01 11:31 AM	1.
CGridInput.cpp		15KB	CPP File	9/17/01 11:31 AM	
CGridInput.h		6KB	H File	9/17/01 11:31 AM	
CheckCoincidenceDlg.cpp		6KB	CPP File	9/17/01 11:31 AM	
CheckCoincidenceDlg.h	•	4KB	H File	9/17/01 11:31 AM	1
CheckDistortionDlg.cpp		3КВ	CPP File	9/17/01 11:31 AM	. I
CheckDistortionDlg.h		2KB	H File	9/17/01 11:31 AM	
ChildFrm.cpp		. 2KB	CPP File	9/17/01 11:31 AM	
ChildFrm.h		2KB	H File	9/17/01 11:31 AM	
CListFileMFC.cpp		3KB	CPP File	9/17/01 11:31 AM	
CListFileMFC.h		2KB	H File	9/17/01 11:31 AM	
ColorDig.cpp		9KB	CPP File	9/17/01 11:31 AM	
ColorDig.h		ЗКВ	H File	9/17/01 11:31 AM	
CopyMatPropertyDlg.cpp		8KB	CPP File	9/17/01 11:31 AM	
CopyMatPropertyDlg.h		ЗКВ	H File	9/17/01 11:31 AM	
CreateArcDlg.cpp		14KB	CPP File	9/17/01 11:31 AM	
CreateArcDig.h		ЗКВ	H File	9/17/01 11:31 AM	
320 object(s)	3.31MB (Disk fre	e space: 0	bytes)	omputer	

FIG. 33

<u>File</u> <u>Edit <u>View</u> <u>Go</u> <u>Favorites</u> <u>Tools</u></u>	<u>H</u> eîp			
lame	Size	Туре	Modified	L
CreateBCDlg.h	11KB	H File	9/17/01 11:31 AM	F
CreateBCFluid.cpp	22KB	CPP File	9/17/01 11:31 AM	ı
CreateBCFluid.h	9KB	H File	9/17/01 11:31 AM	r
CreateBCInterpolateDlg.cpp	11KB	CPP File	9/18/01 12:26 PM	ı
CreateBCInterpolateDlg.h	4KB	H File	9/17/01 11:31 AM	ı
CreateBCInsentropicDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	ı
CreateBCInsentropicDlg.h	3KB	H File	9/17/01 11:31 AM	1
CreateBCTabular.cpp	9KB	CPP File	9/17/01 11:31 AM	١
CreateBCTabular.h	3KB	H File	9/17/01 11:31 AM	١
CreateChemReactionDlg.cpp	5KB	CPP File	9/17/01 11:31 AM	
CreateChemReactionDlg.h	2KB	H File	9/17/01 11:31 AM	
CreateChemSpeciesDlg.cpp	3KB	CPP File	9/17/01 11:31 AM	1
CreateChemSpeciesDlg.h	2KB	H File	9/17/01 11:31 AM	ı
CreateCircleDlg.cpp	10KB	CPP File	9/17/01 11:31 AM	ı
CreateCircleDlg.h	3KB	H File	9/17/01 11:31 AM	ļ
CreateConstraintDlg.cpp	9KB	CPP File	9/17/01 11:31 AM	ı
CreateConstraintDlg.h	4KB	H File	9/17/01 11:31 AM	ı
CreateCurveOffsetDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	ı
CreateCurveOffsetDlg.h	3КВ	H File	9/17/01 11:31 AM	ı
CreateGroupDlg.cpp	9KB	CPP File	9/17/01 11:31 AM	1
CreateGroupDlg.h	3КВ	H File	9/17/01 11:31 AM	ı
CreateInitialConditionsDlg.cpp	22KB	CPP File	9/17/01 11:31 AM	L
CreateInitialConditionsDlg.h	8KB	H File	9/17/01 11:31 AM	L

FIG. 34

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\Source\FemBuilde	er			B
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	
CreateLineDig.h	3KB	H File	9/17/01 11:31 AM	F
CreateNodeDig.cpp	2KB	CPP File	9/17/01 11:31 AM	
CreateNodeDig.h	· 2KB	H File	9/17/01 11:31 AM	- 1
CreatePointBetweenDlg.cpp	12KB	CPP File	9/17/01 11:31 AM	
CreatePointBetweenDlg.h	3KB	H File	9/17/01 11:31 AM	
CreatePointCoordinateDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	
CreatePointCoordinateDlg.h	ЗКВ	H File	9/17/01 11:31 AM	
CreatePointOnCurveDlg.cpp	15KB	CPP File	9/17/01 11:31 AM	
CreatePointOnCurveDlg.h	зкв	H File	9/17/01 11:31 AM	
CreateSplineDlg.cpp	18KB	CPP File	9/17/01 11:31 AM	
CreateSplineDlg.h	3KB	H File	9/17/01 11:31 AM	
CreateSurfaceBoundaryDlg.cpp	8KB	CPP File	9/17/01 11:31 AM	
CreateSurfaceBoundaryDlg.h	2KB	H File	9/17/01 11:31 AM	
CreateSurfaceExtrudeDlg.cpp	13KB	CPP File	9/17/01 11:31 AM	
CreateSurfaceExtrudeDlg.h	3KB	H File	9/17/01 11:31 AM	
CreateSurfaceRevolveDig.cpp	12KB	CPP File	9/17/01 11:31 AM	
CreateSurfaceRevolveDig.h	3КВ	H File	9/17/01 11:31 AM	
CreateSurfaceSweepDlg.cpp	7KB	CPP File	9/17/01 11:31 AM	
CreateSurfaceSweepDlg.h	ЗКВ	H File	9/17/01 11:31 AM	
CreateSystemDlg.cpp	12KB	CPP File	9/17/01 11:31 AM	
CopySystemDlg.h	3KB	H File	9/17/01 11:31 AM	
CreateVolumeBoundaryDig.cpp	6KB	CPP File	9/17/01 11:31 AM	
CreateVolumeBoundaryDlg.h	2KB	H File	9/17/01 11:31 AM	

FIG. 35

☐ Exploring -D:\FEM Builder 1.2\Source\Fe	emBuilder			8
File Edit View Go Favorites Tools	<u>l</u> elp			
Name	Size	Туре	Modified	4
CreateVolumeExtrudeDig.cpp	11KB	CPP File	9/17/01 11:31 AM	
CreateVolumeExtrudeDlg.h	3КВ	H File	9/17/01 11:31 AM	
CreateVolumeRevolveDlg.cpp	10KB	CPP File	9/17/01 11:31 AM	
CreateVolumeRevolveDlg.h	3КВ	H File	9/18/01 12:26 PM	
CreateVolumeSweepDlg.cpp	2KB	CPP File	9/17/01 11:31 AM	
CreateVolumeSweepDlg.h	2KB	H File	9/17/01 11:31 AM	
CWizardPage.cpp	2KB	CPP File	9/17/01 11:31 AM	
CWizardPage.h	2KB	H File	9/17/01 11:31 AM	
CWizardSheet.cpp	10KB	CPP File	9/17/01 11:31 AM	
CWizardSheet.h	2KB	H File	9/17/01 11:31 AM	
DefineVectorDlg.cpp	14KB	CPP File	9/17/01 11:31 AM	
DefineVectorDlg.h	ЗКВ	H File	9/17/01 11:31 AM	
DeformMeshDlg.cpp	4KB	CPP File	9/17/01 11:31 AM	
DeformMeshDlg.h	2KB	H File	9/17/01 11:31 AM	
DisplayOptionDlg.cpp	25KB	CPP File	9/17/01 3:00 PM	
DisplayOptionDlg.h	8KB	H File	9/17/01 11:31 AM	
EditBCColorDig.cpp	6KB	CPP File	9/17/01 11:31 AM	
EditBCColorDlg.h	3КВ	H File	9/17/01 11:31 AM	
EditColorPS.cpp	9KB	CPP File	9/17/01 11:31 AM	
EditColorPS.h	3КВ	H File	9/17/01 11:31 AM	- 1
EditCurveSplitDlg.cpp	11KB	CPP File	9/17/01 11:31 AM	
EditCurveSplitDlg.h	3КВ	H File	9/17/01 11:31 AM	
EditCurveSubdivisionDlg.cpp	9KB	CPP File	9/17/01 11:31 AM	
20 object(s) 3.3	1MB (Disk free space: 0	bytes) My	Computer	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

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Name	Size	Туре	Modified	Ţ
EditCurveSubdivison.Dlg.h	3КВ	H File	9/17/01 11:31 AM	┢
EditCurveTrim.Dlg.cpp	9KB	CPP File	9/17/01 11:31 AM	
EditCurveTrim.Dlg.h	3КВ	H File	9/17/01 11:31 AM	
EditElementAttributesDlg.cpp	14KB	CPP File	9/17/01 11:31 AM	-
EditElementAttributesDlg.h	4KB	H File	9/17/01 11:31 AM	- 1
EditElementDlg.cpp	18KB	CPP File	9/17/01 11:31 AM	
EditElementDlg.h	4KB	H File	9/17/01 11:31 AM	
EditElementOrientDlg.cpp	46KB	CPP File	9/17/01 11:31 AM	1
EditElementOrientDlg.h	15KB	H File	9/17/01 11:31 AM	-1
EditGravityDlg.cpp	2KB	CPP File	9/17/01 11:31 AM	- [
EditGravityDlg.h	2KB	H File	9/17/01 11:31 AM	-
EditMeshAttributeDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	1
EditMeshAttributeDlg.h	3KB	H File	9/17/01 11:31 AM	-
EditMultipleElementsDlg.cpp	2KB	CPP File	9/17/01 11:31 AM	-
EditMultipleElementsDlg.h	2KB	H File	9/17/01 11:31 AM	
EditNodeDlg.cpp	11KB	CPP File	9/17/01 11:31 AM	- 1
EditNodeDlg.h	3КВ	H File	9/17/01 11:31 AM	-
EditNodeDSystemDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	-
EditNodeDSystemDlg.h	3КВ	H File	9/17/01 11:31 AM	-
EditWorkPlaneDlg.cpp	10KB	CPP File	9/17/01 11:31 AM	-
EditWorkPlaneDlg.h	3КВ	H File	9/17/01 11:31 AM	-
EditWorkPlaneMoveDlg.cpp	. 11KB	CPP File	9/17/01 11:31 AM	L
EditWorkPlaneMoveDlg.h	ЗКВ	H File	9/17/01 11:31 AM	

FIG. 37

☐ Exploring -D:\FEM Builder 1.2\Source\FemBuilder			_	8
File Edit View Go Favorites Tools Help		<del>-</del> -		
Name	Size	Туре	Modified	
error.wav	25KB	Wave Sound	8/3/96 1:00 AM	上
ExecuteAbaqusDlg.cpp	6KB	CPP File	9/17/01 11:31 AM	
ExecuteAbaqusDlg.h	ЗКВ	H File	9/17/01 11:31 AM	Г
ExecuteFluentDlg.cpp	8KB	CPP File	9/17/01 11:31 AM	-
ExecuteFluentDlg.h	ЗКВ	H File	9/17/01 11:31 AM	
ExecuteParameterPP.cpp	20KB	CPP File	9/17/01 11:31 AM	
ExecuteParameterPP.h	5KB	H File	9/17/01 11:31 AM	- 1
Fem.aps	621KB	APS File	9/20/01 10:36 AM	- 1
Fem.cpp	16KB	CPP File	9/20/01 11:07 AM	
Fem.dsp	30KB	DSP File	9/17/01 11:31 AM	
Fem.dsw	2KB	DSW File	9/17/01 11:31 AM	
Fem.h	3КВ	H File	9/20/01 10:37 AM	- 1
Fem.rc	353KB	RC File	9/20/01 11:36 AM	
FemDoc.cpp	44KB	CPP File	9/17/01 11:31 AM	
FemDoc.h	17KB	H File	9/17/01 11:31 AM	- 1
FemDocBlank.cpp	4KB	CPP File	9/17/01 11:31 AM	1
FemDocCreateBC.cpp	11KB	CPP File	9/17/01 11:31 AM	
FemDocDelete.cpp	8KB	CPP File	9/17/01 11:31 AM	
FemDocEditBC.cpp	2KB	CPP File	9/17/01 11:31 AM	
FemDocFEM.cpp	3KB	CPP File	9/17/01 11:31 AM	
FemDocGeometry.cpp	9KB	CPP File	9/17/01 11:31 AM	
FemDocInterfaces.cpp	6KB	CPP File	9/17/01 11:31 AM	L
FemDocList.cpp	10KB	CPP File	9/17/01 11:31 AM	
3.31MB (Disk fre	e space: 0	bytes) My Co	mputer	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Source\Fer			<u>L</u>	Ð
<u>File</u> <u>Edit</u> <u>View</u> <u>Go</u> <u>Favorites</u> <u>Tools</u> <u>He</u>	elp			
Name	Size	Туре	Modified	
FemDocMatProp.cpp	6KB	CPP File	9/17/01 11:31 AM	
FemDocOrient.cpp	1KB	CPP File	9/17/01 11:31 AM	
FemDocPost.cpp	4KB	CPP File	9/17/01 11:31 AM	
FemDocTools.cpp	4KB	CPP File	9/17/01 11:31 AM	
FemUserMessage.h	1KB	H File	9/17/01 11:31 AM	
FemView.cpp	52KB	CPP File	9/21/01 7:06 AM	
FemView.h	11KB	H File	9/17/01 11:31 AM	
FilterOptionsDlg.cpp	5KB	CPP File	9/17/01 11:31 AM	
FilterOptionsDlg.h	2KB	H File	9/17/01 11:31 AM	
FlowModelParameters.cpp	17KB	CPP File	9/17/01 11:31 AM	
FlowModelParameters.h	5KB	H File	9/17/01 11:31 AM	
FractureMechanicsDlg.cpp	4KB	CPP File	9/17/01 11:31 AM	
FractureMechanicsDlg.h	· 2KB	H File	9/17/01 11:31 AM	
GPropertySheetFun.cpp	3KB	CPP File	9/17/01 11:31 AM	
GPropertySheetFun.h	1KB	H File	9/17/01 11:31 AM	
Insert2DFlawDlg.cpp	15KB	CPP File	9/17/01 11:31 AM	
Insert2DFlawDlg.h	5KB	H File	9/17/01 11:31 AM	- 1
Insert2DFlawEllipseDlg.cpp	8KB	CPP File	9/17/01 11:31 AM	- 1
Insert2DFlawEllipseDlg.h	2KB	H File	9/17/01 11:31 AM	1
Interface.cpp	41KB	CPP File	9/17/01 11:31 AM	- 1
Interface.h	3KB	H File	9/17/01 11:31 AM	- 1
InterpolateProjectionDlg.cpp	9KB	CPP File	9/17/01 11:31 AM	L
InterpolateProjectionDlg.h	3KB	H File	9/17/01 11:31 AM	Ľ

FIG. 39

Exploring -D:\FEM Builder 1.2\Source\FemBuilde	r		8
<u>File</u> <u>Edit</u> <u>View</u> <u>Go</u> <u>Favorites</u> <u>Tools</u> <u>H</u> elp			
Name	Size Type	Modified	
listFileDlg.cpp	5KB CPP File	8/3/96 1:00 AM	F
listFileDlg.h	2KB H File	9/17/01 11:31 AM	
ListResultValuesDlg.cpp	7KB CPP File	9/17/01 11:31 AM	_ F
ListResultValuesDlg.h	3KB H File	9/17/01 11:31 AM	
MainFrm.cpp	17KB CPP File	9/20/01 10:37 AM	
MainFrm.h	3KB H File	9/17/01 11:31 AM	
MaterialPropertyDlg.cpp	20KB CPP File	9/17/01 11:31 AM	
MaterialPropertyDlg.h	5KB H File	< 9/20/01 10:36 AM	
MeshDlg.cpp	42KB CPP File	9/20/01 11:07 AM	
MeshDlg.h	10KB H File	9/17/01 11:31 AM	
ModelFileName PRcpp	12KB CPP File	9/17/01 11:31 AM	
ModelFileName PP.h	4KB H File	9/20/01 10:37 AM	
ModelInfoDlg.cpp	17KB CPP File	9/20/01 11:36 AM	
ModelInfoDlg.h	6KB H File	9/17/01 11:31 AM	
MoveCopyDlg.cpp	34KB CPP File	9/17/01 11:31 AM	
MoveCopyDlg.h	10KB H File	9/17/01 11:31 AM	
OptionsDlg.cpp	21KB CPP File	9/18/01 12:26 PM	
OptionsDlg.h	9KB H File	9/17/01 11:31 AM	
OrientViewDlg.cpp	6KB CPP File	9/21/01 7:06 AM	
OrientViewDlg.h	4KB H File	9/17/01 11:31 AM	
PostContourDlg.cpp	17KB CPP File	9/17/01 11:31 AM	
PostContourDig.h	4KB H File	9/17/01 11:31 AM	
PostDeformedDlg.cpp	13KB CPP File	9/17/01 11:31 AM	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Source\FemBuilde	r			- B ×
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	<b>A</b>
PostDeformedDlg.h	зкв	H File	9/17/01 11:31 AM	
PostDlg.cpp	33KB	CPP File	9/21/01 7:06 AM	
PostDlg.h	11KB	H File	9/17/01 11:31 AM	
PostVectorDig.cpp	17KB	CPP File	9/17/01 11:31 AM	
PostVectorDig.h	4KB	H File	9/17/01 11:31 AM	
PostView.cpp	15KB	CPP File	9/21/01 7:06 AM	
PostView.h	4KB	H File	9/17/01 11:31 AM	
PostXYAnalysisResultDlg.cpp	30KB	CPP File	9/17/01 11:31 AM	
PostXYAnalysisResultDlg.h	7KB	H File	9/17/01 11:31 AM	
PostXYPlotParmDlg.cpp	35KB	CPP File	9/17/01 11:31 AM	
PostXYPiotParmDlg.h	9KB	H File	9/17/01 11:31 AM	
PostXYPlotViewDlg.cpp	2KB	CPP File	9/17/01 11:31 AM	
PostXYPlotViewDlg.h	2KB	H File	9/17/01 11:31 AM	
PostXYTimeHistoryDlg.cpp	21KB	CPP File	9/17/01 11:31 AM	
PostXYTimeHistoryDlg.h	4KB	H File	9/17/01 11:31 AM	
ReadAbaqusDig.cpp	3КВ	CPP File	9/17/01 11:31 AM	
ReadAbaqusDlg.h	2KB	H File	9/17/01 11:31 AM	
ReadAnsysDig.cpp	зкв	CPP File	9/17/01 11:31 AM	
ReadAnsysDlg.h	2KB	H File	9/17/01 11:31 AM	
ReadAscharDig.cpp	4KB	CPP File	9/17/01 11:31 AM	
ReadAscharDig.h	3КВ	H File	9/17/01 11:31 AM	
ReadCCMDig.cpp	4KB	CPP File	9/17/01 11:31 AM	
ReadCMMDlg.h	3КВ	H File	9/17/01 11:31 AM	
320 object(s) 3.31MB (Disk	free space: 0	bytes)	My Computer	

FIG. 41

Exploring -D:\FEM Builder 1.2\Source	-\FemBuilder			B
<u>File</u> <u>E</u> dit <u>V</u> iew <u>G</u> o <u>Fa</u> vorites <u>T</u> ools	s <u>H</u> elp			
Name	Size	Туре	Modified	
ReadCDCADlg.cpp	4KB	CPP File	9/17/01 11:31 AM	T
ReadCDCADig.h	3КВ	H File	9/17/01 11:31 AM	١
ReadFluentDlg.cpp	3КВ	CPP File	9/17/01 11:31 AM	1
ReadFluentDlg.h	2KB	H File	9/17/01 11:31 AM	l
ReadGridGenDlg.cpp	3КВ	CPP File	9/17/01 11:31 AM	İ
ReadGridGenDlg.h	2KB	H File	9/17/01 11:31 AM	
ReadideasMsDig.cpp	3КВ	CPP File	9/17/01 11:31 AM	
ReadideasMsDig.h	2KB	H File	9/17/01 11:31 AM	
ReadPatranDig.cpp	8KB	CPP File	9/17/01 11:32 AM	
ReadPatranDlg.h	3КВ	H File	9/17/01 11:32 AM	
ReadRecessDig.cpp	3КВ	CPP File	9/17/01 11:32 AM	
ReadRecessDig.h	2KB	H File	9/17/01 11:32 AM	
ReadSharpDlg.cpp	3КВ	CPP File	9/17/01 11:32 AM	
ReadSharpDlg.h	2KB	H File	9/17/01 11:32 AM	
ReadSindaDlg.cpp	ЗКВ	CPP File	9/17/01 11:32 AM	
ReadSindaDlg.h	2KB	H File	9/17/01 11:32 AM	
ReadSinGenDlg.cpp	3КВ	CPP File	9/17/01 11:32 AM	
ReadSinGenDlg.h	2KB	H File	9/17/01 11:32 AM	
ReadTexChemDlg.cpp	3КВ	CPP File	9/17/01 11:32 AM	
ReadTexChemDlg.h	2KB	H File	9/17/01 11:32 AM	
RefineMeshAdaptiveDlg.cpp	19KB	CPP File	9/20/01 10:38 AM	
RefineMeshAdaptiveDlg.h	5KB	H File	9/17/01 11:32 AM	Į
RefineMeshSpecifiedDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	[

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File Edit View Go Favorites Tools Help				L .
lame	Size	Туре	Modified	$\Box$
RefineMeshSpecifiedDlg.h	ЗКВ	H File	9/17/01 11:32 AM	ı
resource.fd	56KB	FD File	9/20/01 10:36 AM	
resource.h	39KB	H File	9/20/01 10:36 AM	- 1
ResultInterpolationDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
ResultInterpolationDlg.h	5KB	H File	9/17/01 11:32 AM	
ResultSuperpositonDlg.cpp	6KB	CPP File	9/17/01 11:32 AM	1
ResultSuperpositonDlg.h	ЗКВ	H File	9/17/01 11:32 AM	
SaveViewOrientationDlg.cpp	2KB	CPP File	9/17/01 11:32 AM	
SaveViewOrientationDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectBCDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectBCDlg.h	ЗКВ	H File	9/17/01 11:32 AM	
SelectBCSetsDlg.cpp	зкв	CPP File	9/17/01 11:32 AM	
SelectBCSetsDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectCurveDig.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectCurveDig.h	3КВ	H File	9/17/01 11:32 AM	
SelectDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectDlg.h	5KB	H File	9/17/01 11:32 AM	
SelectElementDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
SelectElementDig.h	3KB	H File	9/17/01 11:32 AM	
SelectFaceDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectFaceDig.h	2KB	H File	9/17/01 11:32 AM	
SelectGroupDig.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectGroupDlg.h	зкв	H File	9/17/01 11:32 AM	

FIG. 43

☐ Exploring -D:\FEM Builder 1.2\Source\F	<del>~~~~</del>			라 ×
<u>File</u> <u>E</u> dit <u>View</u> <u>G</u> o F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp			
Name	Size	Туре	Modified	<b>A</b>
SelectMaterialDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectMaterialDig.h	3КВ	H File	9/17/01 11:32 AM	
SelectMateriallDsDlg.cpp	3КВ	CPP File	9/17/01 11:32 AM	
SelectMaterialIDsDlg.h	2KB	H File	9/17/01 11:32 AM	- 1
SelectModelDlg.cpp	3KB	CPP File	9/17/01 11:32 AM	
SelectModelDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectNodeDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
SelectNodeDlg.h	3КВ	H File	9/17/01 11:32 AM	
SelectPointDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectPointDlg.h	3КВ	H File	9/17/01 11:32 AM	
SelectReactionsDlg.cpp	4KB	CPP File	9/17/01 11:32 AM	
SelectReactionsDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectResultDlg.cpp	16KB	CPP File	9/17/01 11:32 AM	
SelectResultDig.h	4KB	H File	9/17/01 11:32 AM	
SelectSpeciesDlg.cpp	4KB	CPP File	9/17/01 11:32 AM	
SelectSpeciesDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectSurfaceByTypeDlg.cpp	ЗКВ	CPP File	9/17/01 11:32 AM	
SelectSurfaceByTypeDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectSurfaceDlg.cpp	10KB	CPP File	9/17/01 11:32 AM	- 1
SelectSurfaceDlg.h	3КВ	H File	9/17/01 11:32 AM	- 1
SelectSystemDlg.cpp	6KB	CPP File	9/17/01 11:32 AM	
SelectSystemDlg.h	2KB	H File	9/17/01 11:32 AM	L
SelectVolumeDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	V

FIG. 44

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Sou	rce\FemBuilder			B
File Edit View Go Favorites To	ools <u>H</u> elp			
Name	Size	Туре	Modified	4
SelectVolumeDlg.h	3KB	H File	9/17/01 11:32 AM	
SmoothMeshDlg.cpp	7KB	CPP File	9/17/01 11:32 AM	
SmoothMeshDlg.h	3КВ	H File	9/17/01 11:32 AM	
SplashWnd.cpp	4KB	CPP File	9/17/01 11:32 AM	
SplashWnd.h	2KB	H File	9/17/01 11:32 AM	
Spish16.bmp	81KB	Bitmap Image	9/17/01 11:32 AM	
StdAfx.cpp	1KB	CPP File	9/17/01 11:32 AM	
StdAfx.h	2KB	H File	9/17/01 11:32 AM	
SubModelDlg.cpp	11KB	CPP File	9/17/01 11:32 AM	
SubModelDlg.h	4KB	H File	9/17/01 11:32 AM	
SweepDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SweepDlg.h	3КВ	H File	9/17/01 11:32 AM	
ThermalAblationDlg.cpp	12KB	CPP File	9/17/01 11:32 AM	
ThermalAblationDlg.h	4KB	H File	9/17/01 11:32 AM	
TranslateDlg.cpp	2KB	CPP File	9/17/01 11:32 AM	- 1
TranslateDig.h	2KB	H File	9/17/01 11:32 AM	
UnitSystemPP.cpp	6KB	CPP File	9/17/01 11:32 AM	
UnitSystemPP.h	2KB	H File	9/17/01 11:32 AM	
WriteAbaqusDlg.cpp	18KB	CPP File	9/17/01 11:32 AM	
WriteAbaqusDlg.h	7KB	H File	9/17/01 11:32 AM	
WriteAnsysDlg.cpp	2KB	CPP File	9/17/01 11:32 AM	
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM	L
WriteCCMDlg.cpp	. 8КВ	CPP File	9/17/01 3:00 PM	
20 object(s)	3.31MB (Disk free space: 0	bytes) My Cor	mputer	

FIG. 45

File Edit View Go Favorites Tools Help			
Name	Size	Туре	Modified
WriteAnsysDlg.cpp	· 2KB	CPP File	9/17/01 11:32 AM
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM
WriteCCMDlg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCCMDlg.h	3KB	H File	9/17/01 11:32 AM
WriteCDCADIg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCDCADlg.h	ЗКВ	H File	9/17/01 11:32 AM
WriteFluentDlg.cpp	22KB	CPP File	9/17/01 11:32 AM
WriteFluentDlg.h	9KB	H File	9/17/01 11:32 AM
WriteldeasMSDlg.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteldeasMSDlg.h	3КВ	H File	9/17/01 11:32 AM
WritePatranDlg.cpp	6KB	CPP File	9/17/01 11:32 AM
WritePatranDlg.h	3КВ	H File	9/17/01 11:32 AM
WriteRecessDlg.cpp	26KB	CPP File	9/17/01 11:32 AM
WriteRecessDlg.h	7KB	H File	9/17/01 11:32 AM
WriteSindaDlg.cpp	14KB	CPP File	9/17/01 11:32 AM
WriteSindaDlg.h	6KB	H File	9/17/01 11:32 AM
WriteTexChem.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteTexChem.h	4KB	H File	9/17/01 11:32 AM
XYPlotParmDlg.cpp	40KB	CPP File	9/21/01 7:06 AM
XYPlotParmDlg.h	9KB	H File	9/17/01 11:32 AM
XYPlotView.cpp	48KB	CPP File	9/21/01 7:06 AM
XYPlotView.h	8KB	H File	9/17/01 11:32 AM

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☐ Exploring -D:\FEM Builder 1.2\Source	ce\FemLib			BX
File Edit View Go Favorites Too	ols <u>H</u> elp			
Name	Size	Туре	Modified	lack
FemDB		File Folder	9/21/01 9:21 AM	
☐ Include		File Folder	9/21/01 9:21 AM	
interfaces `		File Folder	9/21/01 9:21 AM	
FemLib.dsp	22KB	DSP File	9/17/01 11:37 AM	
FemLib.dsw	2KB	DSW File	9/17/01 11:37 AM	
·				
	· · · · · · · · · · · · · · · · · · ·			V
5 object(s)	46.7KB (Disk free space: 0	bytes) My Co	mputer	

FIG. 47

File Edit View Go Favorites Tools He	lp			
lame	Size	Туре	Modified	Ţ
CAblationSurface.cpp	2KB	CPP File	9/17/01 11:37 AM	F
CAdjacentElementList.cpp	4KB	CPP File	9/17/01 11:37 AM	
CAmplitude.cpp	4KB	CPP File	9/17/01 11:37 AM	
CBC.cpp	2KB	CPP File	9/17/01 11:37 AM	
CBCDefault.cpp	13KB	CPP File	9/17/01 11:37 AM	- 1
CBCR.cpp	2KB	CPP File	9/17/01 11:37 AM	
CBCSet.cpp	35KB	CPP File	9/17/01 11:37 AM	
CBCV.cpp	2KB	CPP File	9/17/01 11:37 AM	- 1
CBoundaryNodeList.cpp	9KB	CPP File	9/17/01 11:37 AM	
CCAXAResult.cpp	5KB	CPP File	9/17/01 11:37 AM	- 1
CCoincidentNode.cpp	15KB	CPP File	9/17/01 11:37 AM	
CContourPolygon.cpp	2KB	CPP File	9/17/01 11:37 AM	
CCrack.cpp	27KB	CPP File	9/17/01 11:37 AM	- [
CCrackList.cpp	3KB	CPP File	9/17/01 11:37 AM	
CCurveSubdivision.cpp	6KB	CPP File	9/17/01 11:37 AM	
CEAttrib.cpp	5KB	CPP File	9/17/01 11:37 AM	
CEdgeSubdivisions.cpp	11KB	CPP File	9/17/01 11:37 AM	- [
CElement.cpp	42KB	CPP File	9/17/01 11:37 AM	
CEquation.cpp	4KB	CPP File	9/17/01 11:37 AM	
CFemCurve.cpp	2KB	CPP File	9/17/01 11:37 AM	
CFemDP.cpp	23KB	CPP File	9/17/01 11:37 AM	
CFemDBAblationSurface.cpp	3КВ	CPP File	9/17/01 11:37 AM	L
CFemDBAmplitude.cpp	2KB	CPP File	9/17/01 11:37 AM	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\Source\FemL	.ib\FemDB			B
File Edit View Go Favorites Tools Help	)			
Name	Size	Туре	Modified	
CFemDBBC.cpp	28KB	CPP File	9/17/01 11:37 AM	F
CFemDBBCDefaults.cpp	ЗКВ	CPP File	9/17/01 11:37 AM	
CFemDBConventions.cpp	8KB	CPP File	9/17/01 11:37 AM	<u> </u>
CFemDBCResult.cpp	зкв	CPP File	9/17/01 11:37 AM	
CFemDBCurve.cpp	21KB	CPP File	9/17/01 11:37 AM	
CFemDBElement.cpp	17KB	CPP File	9/17/01 11:37 AM	
CFemDBElementOrient.cpp	9KB	CPP File	9/17/01 11:37 AM	
CFemDBEquation.cpp	17KB	CPP File	9/17/01 11:37 AM	
CFemDBEResult.cpp	3КВ	CPP File	9/17/01 11:37 AM	
CFemDBGroup.cpp	9KB	CPP File	9/17/01 11:37 AM	
CFemDBInitialConditions.cpp	· 4KB	CPP File	9/17/01 11:37 AM	
CFemDBMaterial.cpp	7KB	CPP File	9/17/01 11:37 AM	
CFemDBMatiD.cpp	11KB	CPP File	9/17/01 11:37 AM	
CFemDBMesh.cpp	10KB	CPP File	9/17/01 11:37 AM	
CFemDBNode.cpp	6KB	CPP File	9/17/01 11:37 AM	
CFemDBNResult.cpp	3КВ	CPP File	9/17/01 11:37 AM	
CFemDBPrp.cpp	6KB	CPP File	9/17/01 11:37 AM	- 1
CFemD8Pt.cpp	4KB	CPP File	9/17/01 11:37 AM	- 1
CFemDBResult.cpp	41KB	CPP File	9/17/01 11:37 AM	١
CFemDBSelect.cpp	62KB	CPP File	9/17/01 11:37 AM	
CFemDBSet.cpp	9KB	CPP File	9/17/01 11:37 AM	
CFemDBSubset.cpp	2KB	CPP File	9/17/01 11:37 AM	
CFemDBSurface.cpp	26KB	CPP File	9/17/01 11:37 AM	L

FIG. 49

Exploring -D:\FEM Builder 1.2\Sour	ce\FemLib\FemDB		L.	P X
File Edit View Go Favorites To	ols <u>H</u> elp			
Name	Size	Туре	Modified	A
CFemDBSystem.cpp	7KB	CPP File	9/17/01 11:37 AM	
CFemDBVolume.cpp	14KB	CPP File	9/17/01 11:37 AM	
CFemDO.cpp	6KB	CPP File	9/17/01 11:37 AM	
CFemGeometry.cpp	2KB	CPP File	9/17/01 11:37 AM	
CFemOptions.cpp	ЗКВ	CPP File	9/17/01 11:37 AM	
CFlowModel.cpp	9KB	CPP File	9/17/01 11:37 AM	
CFractureCCI.cpp	6KB	CPP File	9/17/01 11:37 AM	
CFractureCOD.cpp	7KB	CPP File	9/17/01 11:37 AM	
CFractureJIntegral.cpp	21KB	CPP File	9/17/01 11:37 AM	
CFractureJIntegralDPEnergyE.cpp	2KB	CPP Fite	9/17/01 11:37 AM	
CFractureJIntegralDPEnergyl.cpp	4KB	CPP File	9/17/01 11:37 AM	
CFractureMechanics.cpp	2KB	CPP File	9/17/01 11:37 AM	
CGPDistortionCheck.cpp	2KB	CPP File	9/17/01 11:37 AM	- 1
CGroup.cpp	7KB	CPP File	9/17/01 11:37 AM	
Cinsert2DFlaw.cpp	41KB	CPP File	9/17/01 11:37 AM	
ClsentropicFlow.cpp	4KB	CPP File	9/17/01 11:37 AM	
CMesh.cpp	2KB	CPP File	9/17/01 11:37 AM	
CMesh2D.cpp	24KB	CPP File	9/17/01 11:37 AM	
CMesh3D.cpp	34KB	CPP File	9/17/01 11:37 AM	
CMeshAttribute.cpp	3КВ	CPP File	9/17/01 11:37 AM	
CMeshElement2D.cpp	13KB	CPP File	9/17/01 11:37 AM	
CMeshMapped2D.cpp	57KB	CPP File	9/17/01 11:37 AM	L
CMeshMapped3D.cpp	17KB	CPP File	9/17/01 11:37 AM	▼
103 object(s)	1.44MB (Disk free space: 0	bytes) DMy	Computer	

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File Edit View Go Favorites Tools	<u>H</u> elp			
Name	Size	Туре	Modified	I
CMeshSmooth.cpp	8KB	CPP File	9/17/01 11:37 AM	F
CMeshTrans3D.cpp	17KB	CPP File	9/17/01 11:37 AM	Т
CMoveCopy.cpp	55KB	CPP File	9/17/01 11:37 AM	Γ
CNode.cpp	4KB	CPP File	9/17/01 11:37 AM	Т
COrient.cpp	2KB	CPP File	9/17/01 11:37 AM	ı
CPt.cpp	2KB	CPP File	9/17/01 11:37 AM	ı
CQuadrant.cpp	19KB	CPP File	9/17/01 11:37 AM	ı
CRefineMesh.cpp	87KB	CPP File	9/17/01 11:37 AM	1
CResult.cpp	43KB	CPP File	9/17/01 11:37 AM	1
CSindaAttrib.cpp	6KB	CPP File	9/17/01 11:37 AM	ı
CSindaNetwork.cpp	37KB	CPP File	9/17/01 11:37 AM	ı
CSubModel.cpp	15KB	CPP File	9/17/01 11:37 AM	ı
CSweepModel.cpp	27KB	CPP File	9/17/01 11:37 AM	ı
CThermalAblation.cpp	32KB	CPP File	9/17/01 11:37 AM	ı
DrawFem.cpp	25KB	CPP File	9/17/01 11:37 AM	1
FemEntityType.cpp	9KB	CPP File	9/17/01 11:37 AM	1
GElementContour.cpp	29KB	CPP File	9/17/01 11:37 AM	1
GElementDistortion.cpp	9KB	CPP File	9/17/01 11:37 AM	1
GElementFun.cpp	16KB	CPP File	9/17/01 11:37 AM	1
GElementGint.cpp	17KB	CPP File	9/17/01 11:37 AM	1
GElementinfo.cpp	42KB	CPP File	9/17/01 11:37 AM	1
GElementNCIP.cpp	27KB	CPP File	9/17/01 11:37 AM	L
GElementNCPP.cpp	10KB	CPP File	9/17/01 11:37 AM	E

FIG. 51

<u>File</u> <u>Edit <u>V</u>iew <u>G</u>o F<u>a</u>vorites <u>T</u>ools <u>H</u>elp</u>			
Name	Size Type	Modified	
CSweepModel.cpp	27KB CPP File	9/17/01 11:37 AM	F
CThermalAblation.cpp	32KB CPP File	9/17/01 11:37 AM	- 1
DrawFem.cpp	25KB CPP File	9/17/01 11:37 AM	Ī
FemEntityType.cpp	9KB CPP File	9/17/01 11:37 AM	- 1
GElementContour.cpp	29KB CPP File	9/17/01 11:37 AM	- 1
GElementDistortion.cpp	9KB CPP File	9/17/01 11:37 AM	
GElementFun.cpp	16KB CPP File	9/17/01 11:37 AM	- 1
GElementGint.cpp	17KB CPP File	9/17/01 11:37 AM	- 1
GElementinfo.cpp	42KB CPP File	9/17/01 11:37 AM	- 1
GElementNCIP.cpp	27KB CPP File	9/17/01 11:37 AM	- 1
GElementNCPP.cpp	10KB CPP File	9/17/01 11:37 AM	- 1
GElementNCVI.cpp	13KB CPP File	9/17/01 11:37 AM	- 1
GElementOrient.cpp	3KB CPP File	9/17/01 11:37 AM	- 1
GElementSF.cpp	17KB CPP File	9/17/01 11:37 AM	- 1
GElementSFD.cpp	33KB CPP File	9/17/01 11:37 AM	- 1
GElementSFDD.cpp	51KB CPP File	9/17/01 11:37 AM	- 1
GMeshFun.cpp	8KB CPP File	9/17/01 11:37 AM	- 1
GPointFun.cpp	2KB CPP File	9/17/01 11:37 AM	- 1
GRdAnsysRes.cpp	13KB CPP File	9/17/01 11:37 AM	- 1
GSindaFun.cpp	2KB CPP File	9/17/01 11:37 AM	
ResultInterpolation.cpp	23KB CPP File	9/17/01 11:37 AM	
ResultSuperposition.cpp	10KB CPP File	9/17/01 11:37 AM	L

### 29/48

☐ Exploring -D:\FEM Builder 1.2\Source\	FemLib\Include			B/×
File Edit View Go Favorites Tools	<u>H</u> elp			
Name	Size	Туре	Modified	. 🔺
CAblationSurface.h	2KB	H File	9/17/01 11:37 AM	
CAdjacentElementList.h	2KB	H File	9/17/01 11:37 AM	
CAmplitdue.h	2KB	H File	9/17/01 11:37 AM	
CBC.h	3КВ	H File	9/17/01 11:37 AM	
CBCDefault.h	9KB	H File	9/17/01 11:37 AM	- 1
CBCR.h	2KB	H File	9/17/01 11:37 AM	- 1
CBCSet.h	6KB	H File	9/17/01 11:37 AM	1.
T CBCV.h	1KB	H File	9/17/01 11:37 AM	
CBoundaryNodeList.h	3KB	H File	9/17/01 11:37 AM	
CCAXAResult.h	3KB	H File	9/17/01 11:37 AM	
CCoincidentNode.h	3KB	H File	9/17/01 11:37 AM	1
CContourPolygon.h	2KB	H File	9/17/01 11:37 AM	
CCrack.h	6KB	H File	9/17/01 11:37 AM	
CCrackList.h	2KB	H File	9/17/01 11:37 AM	- 1
CCurveSubdivision.h	3KB	H File	9/17/01 11:37 AM	
CEAttrib.h	2KB	H File	9/17/01 11:37 AM	
CEdgeSubdivision.h	3КВ	H File	9/17/01 11:37 AM	
CElement.h	15KB	H File	9/17/01 11:37 AM	
CEquation.h	3КВ	H File	9/17/01 11:37 AM	
CFemCurve.h	2KB	H File	9/17/01 11:37 AM	
CFemDB.h	39KB	H File	9/17/01 11:37 AM	
CFemDBSet.h	2KB	H File	9/17/01 11:37 AM	
CFemDO.h	3КВ	H File	9/17/01 11:37 AM	▼
113 object(s)	51 KB (Disk free space: 0	bytes)	My Computer	

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FIG. 53

☐ Exploring -D:\FEM Builder 1.2\Source\FemLib\I	nclude			凸
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	
CFemGeometry.h	ЗКВ	H File	9/17/01 11:37 AM	ı
CFemOptions.h	3КВ	H File	9/17/01 11:37 AM	- 1
CFlowModel.h	4KB	H File	9/17/01 11:37 AM	ı
CFractureCCI.h	2KB	H File	9/17/01 11:37 AM	- 1
CFractureCOD.h	2KB	H File	9/17/01 11:37 AM	- [
CFractureJIntegral.h	4KB	H File	9/17/01 11:37 AM	-
CFractureJIntegralDPEnergyE.h	1KB	H File	9/17/01 11:37 AM	- 1
CFractureJIntegralDPEnergy.h	3КВ	H File	9/17/01 11:37 AM	l
CFractureMechanics.h	1KB	H File	9/17/01 11:37 AM	
CGPDistortionCheck.h	1KB	H File	9/17/01 11:37 AM	- 1
CGroup.h	4KB	H File	9/17/01 11:37 AM	- 1
Cinsert2DFlaw.h	5KB	H File	9/17/01 11:37 AM	1
ClsentropicFlow.h	2KB	H File	9/17/01 11:37 AM	- 1
CMesh.h	• 3КВ	H File	9/17/01 11:37 AM	- 1
CMesh2D.h	4KB	H File	9/17/01 11:37 AM	
CMesh3D.h	5KB	H File	9/17/01 11:37 AM	-
CMeshAttribute.h	зкв	H File	9/17/01 11:37 AM	
CMeshElement2D.h	4KB	H File	9/17/01 11:37 AM	
CMeshMapped2D.h	7KB	H File	9/17/01 11:37 AM	
CMeshMapped3D.h	4KB	H File	9/17/01 11:37 AM	
CMeshSmooth.h	ЗКВ	H File	9/17/01 11:37 AM	
CMeshSubdivision.h	4KB	H File	9/17/01 11:37 AM	
CMeshTrans3D.h	5KB	H File	9/17/01 11:37 AM	
13 object(s) 351 KB (Dis	k free space: 0	bytes) 🔲 My	Computer	

FIG. 54

☐ Exploring -D:\FEM Builder 1.2\Source\	FemLib\Include			日×
File Edit View Go Favorites Tools	<u>H</u> elp			
Name	Size	Туре	Modified	
CMoveCopy.h	5KB	H File	9/17/01 11:37 AM	
CNode.h	2KB	H File	9/17/01 11:37 AM	
COrient.h	2KB	H File	9/17/01 11:37 AM	
CQuadrant.h	5KB	H File	9/17/01 11:37 AM	
CRdCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM	
CRefineMesh.h	7KB	H File	9/17/01 11:37 AM	
CResult.h	11KB	H File	9/17/01 11:37 AM	
CSindaAttrib.h	2KB	H File	9/17/01 11:37 AM	
CSindaNetwork.h	7KB	H File	9/17/01 11:37 AM	- 1
CSubModel.h	2KB	H File	9/17/01 11:37 AM	
CSweepModel.h	3КВ	H File	9/17/01 11:37 AM	Ì
CThermalAblation.h	ЗКВ	H File	9/17/01 11:37 AM	
CWrCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM	
CWrSindaData.h	3КВ	H File	9/17/01 11:37 AM	
FemEntityType.h	6KB	H File	9/17/01 11:37 AM	
FemStddfn.h	2KB	H File	9/17/01 11:37 AM	
GElementContour.h	ЗКВ	H File	9/17/01 11:37 AM	
GElementDistortion.h	2KB	H File	9/17/01 11:37 AM	
GElementFun.h	3КВ	H File	9/17/01 11:37 AM	
GElementGint.h	4KB	H File	9/17/01 11:37 AM	
GElementInfo.h	3КВ	H File	9/17/01 11:37 AM	
GElementNCIPh	3КВ	H File	9/17/01 11:37 AM	
GElementNCPP.h	2KB	H File	9/17/01 11:38 AM	▼
113 object(s) 3	51 KB (Disk free space: 0	bytes)	My Computer	

FIG. 55

☐ Exploring -D:\FEM Builder 1.2\Source\	\FemLib\Include	·		<u> </u>
<u>File</u> <u>E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp			
Name	Size	Туре	Modified	4
CElementNCVI.h	2KB	H File	9/17/01 11:38 AM	
GElementOrient.h	1KB	H File	9/17/01 11:38 AM	
GElementSF.h	2KB	H File	9/17/01 11:38 AM	
GElementSFD.h	3КВ	H File	9/17/01 11:38 AM	
GElementSFDD.h	4KB	H File	9/17/01 11:38 AM	.
GMeshFun.h	1KB	H File	9/17/01 11:38 AM	
GPointFun.h	1KB	H File	9/17/01 11:38 AM	
GRdAnsysRes.h	ЗКВ	H File	9/17/01 11:38 AM	
GSindaFun.h	1KB	H File	9/17/01 11:38 AM	
RdAbaqus.h	6KB	H File	9/17/01 11:38 AM	
RdAbaqusFIF.h	1KB	H File	9/17/01 11:38 AM	
RdAbaqusFOF.h	2KB	H File	9/17/01 11:38 AM	- 1
RdAbaqusInput.h	3КВ	H File	9/17/01 11:38 AM	- 1
RdAnsysCDB.h	6KB	H File	9/17/01 11:38 AM	1
RdAnsysRes.h	4KB	H File	9/17/01 11:38 AM	
RdAschar.h	5KB	H File	9/17/01 11:38 AM	
RdCCM.h	2KB	H File	9/17/01 11:38 AM	1
RdCDCA.h	2KB	H File	9/17/01 11:38 AM	
RdFemDB.h	2KB	H File	9/17/01 11:38 AM	- 1
RdFluent.h	5KB	H File	9/17/01 11:38 AM	
RdFluentJ10.h	, 3КВ	H File	9/17/01 11:38 AM	
RdGridGen.h	2KB	H File	9/17/01 11:38 AM	L,
13 object(s)	351 KB (Disk free space: 0	b. 4 1	☐ My Computer	

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File Edit View Go Favorites	<u>T</u> ools <u>H</u> elp	)			
Name		Size	Туре	Modified	$\prod_{i}$
RdideasMS.h		4KB	H File	9/17/01 11:38 AM	F
RdPatran.h		зкв	H File	9/17/01 11:38 AM	
RdRecess.h		3КВ	H File	9/17/01 11:38 AM	┌
RdSharp.h		3КВ	H File	9/17/01 11:38 AM	
RdSinda.h		1KB	H File	9/17/01 11:38 AM	- 1
RdSinGen.h		1KB	H File	9/17/01 11:38 AM	
RdTexChem.h		2KB	H File	9/17/01 11:38 AM	
RWAbaqus.h		1KB	H File	9/17/01 11:38 AM	
RWAnsys.h		· 2KB	H File	9/17/01 11:38 AM	
RWideasMS.h		2KB	H File	9/17/01 11:38 AM	
WrAbaqus.h		6KB	H File	9/17/01 11:38 AM	- 1
WrAnsysCDB.h	•	ЗКВ	H File	9/17/01 11:38 AM	
WrCCM.h		2KB	H File	9/17/01 11:38 AM	
WrCDCA.h		ЗКВ	H File	9/17/01 11:38 AM	
WrFemDB.h		2KB	H File	9/17/01 11:38 AM	
WrFluent.h		8KB	H File	9/17/01 11:38 AM	
WrldeasMS.h		4KB	H File	9/17/01 11:38 AM	
WrPatran.h		3КВ	H File	9/17/01 11:38 AM	
WrPatranRes.h		2KB	H File	9/17/01 11:38 AM	
WrRecess.h		5KB	H File	9/17/01 11:38 AM	
WrSinda.h		2KB	H File	9/17/01 11:38 AM	
WrTexChem.h		3KB	H File	9/17/01 11:38 AM	L

FIG. 57

File <u>E</u> dit <u>View Go Favorites Tools H</u> elp				_
Name	Size	Туре	Modified	Ī
CRdCrackCombustionData.cpp	4KB	CPP File	9/17/01 11:38 AM	F
CWrCrackCombustionData.cpp	2KB	CPP File	9/17/01 11:38 AM	
RdAbaqus.cpp	38KB	CPP File	9/17/01 11:38 AM	ı
RdAbaqusFIF.cpp	2KB	CPP File	9/17/01 11:38 AM	- 1
GElementSFORh	6KB	CPP File	9/17/01 11:38 AM	
RdAbaqusInput.cpp	45KB	CPP File	9/17/01 11:38 AM	- 1
RdAnsysCDB.cpp	64KB	CPP File	9/17/01 11:38 AM	- 1
] RdAnsysRes.cpp	35KB	CPP File	9/17/01 11:38 AM	Ì
RdAschar.cpp	21KB	CPP File	9/17/01 11:38 AM	- 1
RdCCM.cpp	4KB	CPP File	9/17/01 11:38 AM	
RdDCDCA.cpp	4KB	CPP File	9/17/01 11:38 AM	- 1
RdFemDB.cpp	43KB	CPP File	9/17/01 11:38 AM	
RdFluent.cpp	46KB	CPP File	9/17/01 11:38 AM	ı
RdFluentJ10.cpp	- 23KB	CPP File	9/17/01 11:38 AM	ı
RdGridGen.cpp	6KB	CPP File	9/17/01 11:38 AM	
RdideasMS.cpp	49KB	CPP File	9/17/01 11:38 AM	
RdideasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM	ı
RdPatran.cpp	29KB	CPP File	9/17/01 11:38 AM	
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM	
RdSharp.h	27KB	CPP File	9/17/01 11:38 AM	ı
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM	
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM	L
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM	[

FIG. 58

File Edit View Go Favorites Tools	<u>H</u> elp			
Name	Size	Туре	Modified	Π
RdIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM	Ī
RdPatran.h	29KB	CPP File	9/17/01 11:38 AM	ı
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM	
RdSharp.cpp	27KB	CPP File	9/17/01 11:38 AM	- 1
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM	
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM	
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM	
RWAbaqus.cpp	10KB	CPP File	9/17/01 11:38 AM	
RWAnsys.cpp	20KB	CPP File	9/17/01 11:38 AM	
RWIdeasMS.cpp	19KB	CPP File	9/17/01 11:38 AM	
WrAbaqus.cpp	36KB	CPP File	9/17/01 11:38 AM	
WrAnsysCDB.h	34KB	CPP File	9/17/01 11:38 AM	
WrCCM.cpp	6KB	CPP File	9/17/01 11:38 AM	
WrCDCA.cpp	12KB	CPP File	9/17/01 11:38 AM	
WrFemDB.cpp	37KB	CPP File	9/17/01 11:38 AM	
WrFluent.cpp	65KB	CPP File	9/17/01 11:38 AM	
WrldeasMS.cp	44KB	CPP File	9/17/01 11:38 AM	ı
WrldeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM	
WrPatran.cpp	33KB	CPP File	9/17/01 11:38 AM	
WrRecess.cpp	35KB	CPP File	9/17/01 11:38 AM	
WrSinda.cpp	19KB	CPP File	9/17/01 11:38 AM	
WrTexChem.cpp	. 22KB	CPP File	9/17/01 11:38 AM	L

FIG. 59

Modified	
9/17/01 11:38 AM	
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☐ Exploring -D:\FEM Builder 1.2\Source\FemPython				Ð
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	
FEM_FEModelSubModel.hpp	3КВ	HPP File	9/17/01 11:38 AM	
FEM_FEModelSurface.hpp	11KB	HPP File	9/17/01 11:38 AM	
FEM_FEModelSweep.hpp	2KB	HPP File	9/17/01 11:38 AM	
FEM_FEModelSystem.hpp	3KB	HPP File	9/17/01 11:38 AM	
FEM_FEModelTools.hpp	3КВ	HPP File	9/17/01 11:38 AM	
FEM_FEModelVolume.hpp	9KB	HPP File	9/17/01 11:38 AM	
FEM_FEProperty.hpp	9KB	HPP File	9/17/01 11:38 AM	
FEM_FEPropertyGroup.hpp	7KB	HPP File	9/17/01 11:38 AM	
FEM_FEResult.hpp	15KB	HPP File	9/17/01 11:38 AM	- 1
FEModel.cpp	5KB	CPP File	9/17/01 11:38 AM	
FEModel.h	19KB	H File	9/17/01 11:38 AM	
FEModelBC.cpp	39KB	CPP File	9/17/01 11:38 AM	
FEModelColor.cpp	2KB	CPP File	9/17/01 11:38 AM	
FEModelCurve.cpp	14KB	CPP File	9/17/01 11:38 AM	
FEModelDelete.cpp	3KB	CPP File	9/17/01 11:38 AM	
FEModelElement.cpp	14KB	CPP File	9/17/01 11:38 AM	
FEModelEquation.cpp	зкв	CPP File	9/17/01 11:38 AM	
FEModelGroup.cpp	5KB	CPP File	9/17/01 11:38 AM	ļ
FEModelInterface.cpp	49KB	CPP File	9/17/01 11:38 AM	1
FEModelList.cpp	5KB	CPP File	9/17/01 11:38 AM	-
FEModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM	-
FEModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM	L
FEModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM	
5 object(s) 556KB (Disk fre	ee space: 0 b	ytes) My	Computer	-

FIG. 61

File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	1
FEModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM	上
FEModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM	-
FEModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM	٦
FEModelNode.cpp	7KB	CPP File	9/17/01 11:38 AM	-
FEModelPoint.cpp	5KB	CPP File	9/17/01 11:38 AM	- 1
FEModelPostprocessing.cpp	14KB	CPP File	9/17/01 11:38 AM	
FEModelRegion.cpp	2KB	CPP File	9/17/01 11:38 AM	
FEModelResult.cpp	9KB	CPP File	9/17/01 11:38 AM	- 1
FEModelSubModel.cpp	3КВ	CPP File	9/17/01 11:38 AM	- 1
FEModelSurface.cpp	11KB	CPP File	9/17/01 11:38 AM	- 1
FEModelSweep.cpp	2KB	CPP File	9/17/01 11:38 AM	- [
FEModelSystem.cpp	4KB	CPP File	9/17/01 11:38 AM	١
FEModelVolume.cpp	8KB	CPP File	9/17/01 11:38 AM	
FemPython.dsp	10KB	DSP File	9/17/01 11:38 AM	- 1
FemPython.dsw	3KB	DSW File	9/17/01 11:38 AM	
FEProperty.cpp	4KB	CPP File	9/17/01 11:38 AM	
FEProperty.h	2KB	H File	9/17/01 11:38 AM	- 1
FEPropertyGroup.cpp	3KB	CPP File	9/17/01 11:38 AM	
FEPropertyGroup.h	- 1KB	H File	9/17/01 11:38 AM	- [
FEResult.cpp	10KB	CPP File	9/17/01 11:38 AM	- [
FEResult.h	2KB	· H File	9/17/01 11:38 AM	- [
FEStddfn.h	1KB	H File	9/17/01 11:38 AM	L

FIG. 62

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\Source	e\Pythoi	nLib			_ 0	×
File Edit View Go Favorites Too	ls <u>H</u> elp					
Name		Size	Туре	Modified		lack
[];Include;			File Folder	9/21/01 9:21 AM		П
PythonLib.cpp		1KB	CPP File	9/17/01 11:40 AM	<b>A</b>	
PythonLib.dsp		4KB	DSP File	9/17/01 11:40 AM	И	П
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3 object(s)	5.74KB (	Disk free space: 0	bytes)	My Computer		<u> </u>

FIG. 63

Exploring -D:\FEM Builder 1.2\Source	ce\PythonLib\Include			a ×
File Edit View Go Favorites Too	ols <u>H</u> elp			
Name	Size	Туре	Modified	A
PythonListTools.hpp PythonStddfn.h	19KB 1KB	HPP File H File	9/17/01 11:40 AM 9/17/01 11:40 AM	
				▼
2 object(s)	19.3KB (Disk free space: 0	bytes)	ıter	

FIG. 64

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\Source\SciEngLil	)			图
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	4
];Entity		File Folder	9/21/01 9:21 AM	
Error		File Folder	9/21/01 9:21 AM	
☐ File		File Folder	9/21/01 9:21 AM	
☐ Graphics		File Folder	9/21/01 9:21 AM	
☐ Include		File Folder	9/21/01 9:21 AM	
☐ List	•	File Folder	9/21/01 9:21 AM	
☐ Material		File Folder	9/21/01 9:21 AM	
☐ Math		File Folder	9/21/01 9:21 AM	
☐ String		File Folder	9/21/01 9:21 AM	
☐ Time		File Folder	9/21/01 9:21 AM	ľ
☐ Units		File Folder	9/21/01 9:21 AM	
SciEngLib.dsp	18KB	DSP File	9/17/01 11:41 AM	
SciEngLib.dsw	1KB	DSW File	9/17/01 11:41 AM	
				L
object(s) 2.68KB (Disl	(free space: 0	bytes)	omputer	

FIG. 65

File Edit View Go Favorites Tools Help				
lame	Size	Туре	Modified	L
CCurve.ccp	28KB	CPP File	9/18/01 7:21 AM	F
CCurveSegment.ccp	14KB	CPP File	9/17/01 11:41 AM	
CEdge.ccp	7KB	CPP File	9/17/01 11:41 AM	
CEntity.ccp	зкв	CPP File	9/17/01 11:41 AM	-
CIntersectCurves.ccp	23KB	CPP File	9/17/01 11:41 AM	1
CNamed.ccp	2KB	CPP File	9/17/01 11:41 AM	- [
CPt.ccp	3КВ	CPP File	9/17/01 11:41 AM	-
CRelate.ccp	4KB	CPP File	9/17/01 11:41 AM	
CSurface.ccp	34KB	CPP File	9/17/01 11:41 AM	- [
CSurfaceAnalytic.ccp	8KB	CPP File	9/17/01 11:41 AM	1
CSurfaceBicubic.ccp	6KB	CPP File	9/17/01 11:41 AM	ı
CSurfacePatch.ccp	7KB	CPP File	9/17/01 11:41 AM	
CSurfaceRevolve.ccp	8KB	CPP File	9/17/01 11:41 AM	-1
CSystem.ccp	10KB	CPP File	9/17/01 11:41 AM	-
CVolume.ccp	19KB	CPP File	9/17/01 11:41 AM	- 1
] CWorkPlane.ccp	10KB	CPP File	9/17/01 11:41 AM	ł
·			<u>.</u> •	
				ļ

FIG. 66

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Source	\SciEngLib\Error	_ B ×
File Edit View Go Favorites Too	s <u>H</u> elp	
Name	Size Type	Modified A
FatalError.cpp	1KB CPP File	9/17/01 11:41 AM
FatalErrorMFC.cpp	1KB CPP File	9/17/01 11:41 AM
SciEngError.cpp	1KB CPP File	9/17/01 11:41 AM
3 object(s)	2.68KB (Disk free space: 0 bytes) -	☐ My Computer

FIG. 67

Exploring -D:\FEM Builder 1.2\\$	Source\	SciEngLib\File				_ B >
File Edit View Go Favorites	Tools	<u>H</u> elp				
Name			Size	Туре	Modified	4
CCFormat.ccp :			ЗКВ	CPP File	9/17/01 11:41 AM	
CFileO.ccp			9KB	CPP File	9/17/01 11:41 AM	
Cinterface.ccp			зкв	CPP File	9/17/01 11:41 AM	
CListFile.ccp			5KB	CPP File	9/17/01 11:41 AM	
RdFortranBinary.ccp			4KB	CPP File	9/17/01 11:41 AM	
RdTableFile.ccp			4KB	CPP File	9/17/01 11:41 AM	
SciEngFile.ccp			4KB	CPP File	9/17/01 11:41 AM	
WrTableFile.ccp			2KB	CPP File	9/17/01 11:41 AM	
B object(s)	29	9.7KB (Disk free sp	ace: 0	bytes)	Computer	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

File Edit View Go Favorite	s <u>T</u> ools	<u>H</u> elp				
Name			Size	Туре	Modified	T
CColor Button.cpp		-	6KB	CPP File	9/17/01 11:41 AM	F
CDeviceDC.cpp			9KB	CPP File	9/17/01 11:41 AM	
CDisplayList.cpp			20KB	CPP File	9/17/01 11:41 AM	
CDisplayListHL.cpp			12KB	CPP File	9/17/01 11:41 AM	
CMSWinDC.cpp			9KB	CPP File	9/17/01 11:41 AM	
COpenGLDC.cpp			22KB	CPP File	9/21/01 7:04 AM	
CRubberBand.cpp			6KB	CPP File	9/17/01 11:41 AM	
CViewDC.cpp			45KB	CPP File	9/21/01 7:04 AM	
CXYPlotAxis.cpp			8KB	CPP File	9/17/01 11:41 AM	
CXYPlotCurve.cpp			19KB	CPP File	9/17/01 11:41 AM	- 1
CXYPlotAData.cpp			10KB	CPP File	9/17/01 11:41 AM	
DrawSymbol.cpp			12KB	CPP File	9/17/01 11:41 AM	1
SciEngColor.cpp			7KB	CPP File	9/17/01 11:41 AM	
SciEngDraw.cpp			2KB	CPP File	9/17/01 11:41 AM	
						ŀ

FIG. 69

Exploring -D:\FEM Builder 1.2\Source\SciEr	ngLib\Include			B×
File Edit View Go Favorites Tools Help	)			
Name	Size 1	Гуре	Modified	lack
CAArray.h	3KB	H File	9/17/01 11:41 AM	
CAArray.hpp	4KB H	HPP File	9/17/01 11:41 AM	
CAList.h	2KB H	H File	9/17/01 11:41 AM	
CAList.hpp	4KB H	HPP File	9/17/01 11:41 AM	
CCFormat.h	2KB H	H File	9/17/01 11:41 AM	
CChemicalReaction.h	3KB H	H File	9/17/01 11:41 AM	1 1
CChemica Specie.h	2KB H	H File	9/17/01 11:41 AM	
CColorButton.h	3KB H	H File	9/17/01 11:41 AM	
CCompositeProperty.h	3KB H	H File	9/17/01 11:41 AM	
CCurve.h	4KB H	H File	9/17/01 11:41 AM	
CCurveFit.h	2KB H	H File	9/17/01 11:41 AM	
CCurveSegment.h	3KB H	H File	9/17/01 11:41 AM	
CDateD.h	2KB H	H File	9/17/01 11:41 AM	
CDeviceDC.h	5KB H	H File	9/17/01 11:41 AM	
CDisplayList.h	14KB H	H File	9/17/01 11:41 AM	
CDisplayListHL.h	3KB H	H File	9/17/01 11:41 AM	
CDoubleList.h	2KB H	H File	9/17/01 11:41 AM	
CEdge.h	2KB H	H File	9/17/01 11:41 AM	
CEList.h	3KB H	H File	9/17/01 11:41 AM	
CEList.hpp	8KB H	HPP File	9/17/01 11:41 AM	
CEllipticIntegral.h	2KB H	H File	9/17/01 11:41 AM	
CEntity.h	4KB H	H File	9/17/01 11:41 AM	
CFileIO.h	4KB H	H File	9/17/01 11:41 AM	$\blacksquare$
117 object(s) 288KB	(Disk free space: 0 byt	tes)	☐ My Computer	

FIG. 70

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Source\SciEn	gLib\lnclude			. B ×
File Edit View Go Favorites Tools Help	· · · · · · · · · · · · · · · · · · ·			
Name	Size	Туре	Modified	<b>A</b>
CFindRoot.h	2KB	H File	9/17/01 11:41 AM	
CHash.h	3КВ	H File	9/17/01 11:41 AM	
CIntergrate.h	зкв	H File	9/17/01 11:41 AM	
CIntegrateODE.h	5KB	H File	9/17/01 11:41 AM	
Cinterface.h	2KB	H File	9/17/01 11:41 AM	
CIntersectCurves.h	2KB	H File	9/17/01 11:41 AM	
CIntList.h	2KB	H File	9/17/01 11:41 AM	
CLeastSquareFit.h	1KB	H File	9/17/01 11:41 AM	
CLEList.h	2KB	H File	9/17/01 11:41 AM	
CLEList.hpp	6KB	HPP File	9/17/01 11:41 AM	
CLinkedList.h	2KB	H File	9/17/01 11:41 AM	
CLinkedList.hpp	6KB	HPP File	9/17/01 11:41 AM	
CListFile.h	2KB	H File	9/17/01 11:41 AM	- 1
CMaterialDB.h	2KB	H File	9/17/01 11:41 AM	
CMatID.h	зкв	H File	9/17/01 11:41 AM	
CMSWinDC.h	3КВ	H File	9/17/01 11:41 AM	
CNamed.h	2KB	H File	9/17/01 11:41 AM	ı
CNEList.h	2KB	H File	9/17/01 11:41 AM .	
CNEList.hpp	4KB	HPP File	9/17/01 11:41 AM	
CNewtonRaphson.h	2KB	H File	9/17/01 11:41 AM	
CNTable.hpp	3КВ	HPP File	9/17/01 11:41 AM	
COpenGLDC.h	5KB	H File	9/21/01 7:04 AM	
COptimize 1D.h	3КВ	H File	9/17/01 11:41 AM	V
117 object(s)   288KB (	Disk free space: 0 b	ytes) DM	y Computer	

FIG. 71

☐ Exploring -D:\FEM Builder 1.2\Source\Sc	iEngLib\Include		_	日×
File Edit View Go Favorites Tools H	elp			
Name	Size	Туре	Modified	<b>A</b>
COptimize ND.h	3КВ	H File	9/17/01 11:41 AM	
CPrp Annotation.h	2KB	H File	9/17/01 11:41 AM	
CPrpAttr.h	2KB	H File	9/17/01 11:41 AM	
CPrpDB.h	3KB	H File	9/17/01 11:41 AM	
CPrpGroup.h	2KB	H File	9/17/01 11:41 AM	
CPrpNote.h	1KB	H File	9/17/01 11:41 AM	
CPrp Table.h	2KB	H File	9/17/01 11:41 AM	
CPt.h	2KB	H File	9/17/01 11:41 AM	
CRelate.h	2KB	H File	9/17/01 11:41 AM	
CRelate.hpp	1KB	HPP File	9/17/01 11:41 AM	
CRubberBand.h	2KB	H File	9/17/01 11:41 AM	
CSet.h	2KB	H File	9/17/01 11:41 AM	
CSet.hpp	6KB	<b>HPP File</b>	9/17/01 11:41 AM	
CSetArray.h	6KB	H File	9/17/01 11:41 AM	
CSpline.h	2KB	H File	9/17/01 11:41 AM	l
CSurface.hpp .	11KB	<b>HPP File</b>	9/17/01 11:41 AM	
CSurfaceEdge.h	2KB	H File	9/17/01 11:41 AM	
CSurfaceFit.h	3КВ	H File	9/17/01 11:41 AM	
CSurfacePatch.h	3КВ	H File	9/17/01 11:41 AM	
CSystem.h	ЗКВ	H File	9/17/01 11:41 AM	
CTable.h	4KB	H File	9/17/01 11:41 AM	
CTableCell.h	3КВ	H File	9/17/01 11:41 AM	L
CText.h	3КВ	H File	9/17/01 11:41 AM	
17 object(s) 288k	(B (Disk free space: 0 t	oytes)	My Computer	

FIG. 72

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

			P
Size	Туре	Modified	
2KB	H File	9/17/01 11:41 AM	r
1KB	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	_   T
2KB	H File	9/17/01 11:41 AM	
4KB	H File	9/17/01 11:41 AM	
10KB	H File	9/21/01 7:04 AM	
2KB	H File	9/17/01 11:41 AM	
4KB	H File	9/17/01 11:41 AM	
4KB	H File	9/17/01 11:41 AM	
зкв	H File	9/17/01 11:41 AM	
. 5KB	H File	9/17/01 11:41 AM	
3KB	H File	9/21/01 7:04 AM	
2KB	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	
3КВ	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	
2KB	H File	9/17/01 11:41 AM	
1KB	H File	9/17/01 11:41 AM	
1KB	HPP File	9/17/01 11:41 AM	
3КВ	H File	9/17/01 11:41 AM	L
2KB	H File	9/17/01 11:41 AM	
	2KB 1KB 2KB 2KB 4KB 10KB 2KB 4KB 3KB 2KB 2KB 2KB 2KB 2KB 2KB 2KB 2KB 2KB 2	2KB H File  1KB H File  2KB H File  2KB H File  4KB H File  10KB H File  10KB H File  4KB H File  4KB H File  4KB H File  3KB H File  3KB H File  2KB H File  1KB H File	2KB       H File       9/17/01 11:41 AM         1KB       H File       9/17/01 11:41 AM         2KB       H File       9/17/01 11:41 AM         2KB       H File       9/17/01 11:41 AM         4KB       H File       9/21/01 7:04 AM         2KB       H File       9/17/01 11:41 AM         4KB       H File       9/17/01 11:41 AM         4KB       H File       9/17/01 11:41 AM         3KB       H File       9/17/01 11:41 AM         3KB       H File       9/17/01 11:41 AM         2KB       H File       9/17/01 11:41 AM

FIG. 73

Exploring -D:\FEM Builder 1.2\Source	e\SciEngLib\Include			₽×
File Edit View Go Favorites Too	s <u>H</u> elp			
Name	Size	Туре	Modified	$\blacksquare$
SciEngCurve.h	ЗКВ	H File	9/17/01 11:41 AM	Н
SciEngCurveFit.h	7KB	H File	9/17/01 11:41 AM	1 1
SciEngDraw.h	1KB	H File	9/17/01 11:41 AM	
SciEngError.h	1KB	H File	9/17/01 11:41 AM	
SciEngFile.h	2KB	H File	9/17/01 11:41 AM	
SciEngLib.h	ЗКВ	H File	9/17/01 11:41 AM	1 1
SciEngMath.h	4KB	H File	9/17/01 11:41 AM	
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM	
SciEngMatrix.h	3KB	H File	9/17/01 11:41 AM	1 1
SciEngMove.h	1KB	H File	9/17/01 11:41 AM	- i I
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM	- 1
SciEngPoint.h	4KB	H File	9/17/01 11:41 AM	-
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM	
SciEngResult.h	2KB	H File	9/17/01 11:41 AM	
SciEngSort.h	1KB	H File	9/17/01 11:41 AM	
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM	
SciEngStddfn.h	3КВ	H File	9/17/01 11:41 AM	
SciEngStr.h	3KB	H File	9/17/01 11:41 AM	1 1
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM	
SciEngVector.h	2KB	H File	9/17/01 11:41 AM	
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM	- 1
StdAfx.h	1KB	H File	9/17/01 11:41 AM	
WrMaterialDB.h	1KB	H File	9/17/01 11:41 AM	
117 object(s)	288KB (Disk free space: 0 b	ytes)	iter	

FIG. 74

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

<u>File Edit View Go Favorites Tools</u>	<u>H</u> elp			
lame	Size	Туре	Modified	
SciEngError.h	1KB	H File	9/17/01 11:41 AM	F
SciEngFile.h	2KB	H File	9/17/01 11:41 AM	- 1
SciEngLib.h	- 3KB	H File	9/17/01 11:41 AM	ı
SciEngMath.h	4KB	H File	9/17/01 11:41 AM	
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM	
SciEngMatrix.h	3КВ	H File	9/17/01 11:41 AM	
SciEngMove.h	1KB	H File	9/17/01 11:41 AM	
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM	
SciEngPoint.h	· 4KB	H File	9/17/01 11:41 AM	
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM	
SciEngResult.h	2KB	H File	9/17/01 11:41 AM	
SciEngSort.h	1KB	H File	9/17/01 11:41 AM	
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM	
SciEngStddfn.h	зкв	H File	9/17/01 11:41 AM	
SciEngStr.h	3КВ	H File	9/17/01 11:41 AM	- 1
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM	
SciEngVector.h	2KB	H File	9/17/01 11:41 AM	
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM	- 1
StdAfx.h	1KB	H File	9/17/01 11:41 AM	
WrMaterialDB.h	1KB	H File	9/17/01 11:41 AM	
ปี WrPrpDB.h	2KB	H File	9/17/01 11:41 AM	
WrTableFile.h	1KB	H File	9/17/01 11:41 AM	Į

FIG. 75

Exploring -D:\FEM Builder 1.2\So	ource\SciEngLib\List			_	BX
File Edit View Go Favorites	Tools <u>H</u> elp				
Name		Size	Туре	Modified	lack
CDoubleList.cpp I		ЗКВ	CPP File	9/17/01 11:41 AM	
CHash.cpp		17KB	CPP File	9/17/01 11:41 AM	
CIntList.cpp		4KB	CPP File	9/17/01 11:41 AM	
					·
			•		
			•		
	•				
					▼
3 object(s)	21.4KB (Disk free s	pace: 0	bytes)	outer	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

File Edit View Go Favorites Tools Help  Name    CChemicalReaction.cpp	Size 5KB 8KB 6KB 5KB	Type CPP File CPP File CPP File	Modified 9/17/01 11:41 AM 9/17/01 11:41 AM 9/17/01 11:41 AM
CChemicalReaction.cpp CCompositeProperty.cpp CMaterialDB.cpp CMatlD.cpp	5KB 8KB 6KB	CPP File CPP File	9/17/01 11:41 AM 9/17/01 11:41 AM
CCompositeProperty.cpp CMaterialDB.cpp CMatlD.cpp	8KB 6KB	CPP File	9/17/01 11:41 AM
CMaterialDB.cpp CMatlD.cpp	6KB		***************************************
CMatID.cpp		CPP File	9/17/01 11:41 AM
	5KB		WITH THE PARTY
CNTable.cop		CPP File	9/17/01 11:41 AM
	7KB	CPP File	9/17/01 11:41 AM
CPrpAnnotation.cpp	зкв	CPP File	9/17/01 11:41 AM
CPrpAttr.cpp	4KB	CPP File	9/17/01 11:41 AM
CPrpDB.cpp	4KB	CPP File	9/17/01 11:41 AM
CPrpGroup.cpp	5KB	CPP File	9/17/01 11:41 AM
CPrpTable.cpp	2KB	CPP File	9/17/01 11:41 AM
CTable.cpp	12KB	CPP File	9/17/01 11:41 AM
CTableCell.cpp	4KB	CPP File	9/17/01 11:41 AM
MatPropertyInfo.cpp	23KB	CPP File	9/17/01 11:41 AM
RdMaterialDB.cpp	7KB	CPP File	9/17/01 11:41 AM
RdPrpDB.cpp	7KB	CPP File	9/17/01 11:41 AM
WrMaterialDB.cpp	ЗКВ	CPP File	9/17/01 11:41 AM
WrPrpDB.cpp	6KB	CPP File	9/17/01 11:41 AM

FIG. 77

Exploring -D:\FEM Builder 1.2\Source	\SciEngLib\Math		_	δ×
<u>File</u> <u>E</u> dit <u>View</u> <u>G</u> o F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp			
Name	Size	Туре	Modified	lack
ICCurveFit.cpp I	3КВ	CPP File	9/17/01 11:41 AM	
CEllipticIntegral.cpp	6KB	CPP File	9/17/01 11:41 AM	
CFindRoot.cpp	8KB	CPP File	9/17/01 11:41 AM	
CIntegrate.cpp	20KB	CPP File	9/17/01 11:41 AM	
CintegrateODE.cpp	11KB	CPP File	9/17/01 11:41 AM	
CLeastSquareFit.cpp	3КВ	CPP File	9/17/01 11:41 AM	
CNewtonRaphson.cpp	7KB	CPP File	9/17/01 11:41 AM	
COptimize1D.cpp	9KB	CPP File	9/17/01 11:41 AM	
COptimizeND.cpp	8KB	CPP File	9/17/01 11:41 AM	
CSpline.cpp	6KB	CPP File	9/17/01 11:41 AM	ı
CSurfaceFit.cpp	10KB	CPP File	9/17/01 11:41 AM	
SciEngCSystem.cpp	4KB	CPP File	9/17/01 11:41 AM	
SciEngCurve.cpp	19KB	CPP File	9/17/01 11:41 AM	
SciEngCurveFit.cpp	34KB	CPP File	9/17/01 11:41 AM	
SciEngMath.cpp	16KB	CPP File	9/17/01 11:41 AM	
SciEngMatrix.cpp	33KB	CPP File	9/17/01 11:41 AM	
SciEngMove.cpp	1KB	CPP File	9/17/01 11:41 AM	1
SciEngPoint.cpp	30KB	CPP File	9/17/01 11:41 AM	
SciEngPolygon.cpp	5KB	CPP File	9/17/01 11:41 AM	
SciEngResult.cpp	18KB	CPP File	9/17/01 11:41 AM	
SciEngSort.cpp	1KB	CPP File	9/17/01 11:41 AM	
SciEngSurface.cpp	11KB	CPP File	9/17/01 11:41 AM	
SciEngVector.cpp	6KB	CPP File	9/17/01 11:41 AM	▼
23 object(s)	258KB (Disk free space: 0 t	ytes) My Compu	iter	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

<u>File</u> <u>Edit View Go Favorites Tools</u>	<u>H</u> elp			
Name	Size	Туре	Modified	$\top$
CELipticIntegral.cpp	6KB	CPP File	9/17/01 11:41 AM	Ŧ
CFindRoot.cpp	8KB	CPP File	9/17/01 11:41 AM	-
CIntegrate.cpp	20KB	CPP File	9/17/01 11:41 AM	r
CIntegrateODE.cpp	11KB	CPP File	9/17/01 11:41 AM	
CLeastSquareFit.cpp	3КВ	CPP File	9/17/01 11:41 AM	
CNewtonRaphson.cpp	7KB	CPP File	9/17/01 11:41 AM	
COptimize 1D.cpp	9KB	CPP File	9/17/01 11:41 AM	
COptimizeND.cpp	8KB	CPP File	9/17/01 11:41 AM	- [
CSpline.cpp	6KB	CPP File	9/17/01 11:41 AM	
CSurfaceFit.cpp	10KB	CPP File	9/17/01 11:41 AM	
SciEngCSystem.cpp	4KB	CPP File	9/17/01 11:41 AM	- 1
SciEngCurve.cpp	19KB	CPP File	9/17/01 11:41 AM	
SciEngCurveFit.cpp	34KB	CPP File	9/17/01 11:41 AM	
SciEngMath.cpp	16KB	CPP File	9/17/01 11:41 AM	
SciEngMatrix.cpp	33KB	CPP File	9/17/01 11:41 AM	Ì
SciEngMove.cpp	1KB	CPP File	9/17/01 11:41 AM	
SciEngPoint.cpp	30KB	CPP File	9/17/01 11:41 AM	- [
SciEngPolygon.cpp	5KB	CPP File	9/17/01 11:41 AM	
SciEngResult.cpp	18KB	CPP File	9/17/01 11:41 AM	
SciEngSort.cpp	1KB	CPP File	9/17/01 11:41 AM	
SciEngSurface.cpp	11KB	CPP File	9/17/01 11:41 AM	-
SciEngVector.cpp	6KB	CPP File	9/17/01 11:41 AM	L

FIG. 79

Exploring -D:\FEM Builder 1.2\Source	SciEngLib\String	_ P×
File Edit View Go Favorites Tools	<u>H</u> elp	
Name	Size Type Modified	<b>A</b>
CText.cpp ;	5KB CPP File 9/17/01 11:41 AM	л  —  —
CTextFont.cpp	2KB CPP File 9/17/01 11:41 AM	۱   ۱
CTextFontDialog.cpp	2KB CPP File 9/17/01 11:41 AN	<u>ا</u> ا
SciEngStr.cpp	16KB CPP File 9/17/01 11:41 AN	1
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	\$ ·	
·		₩
4 object(s)	3.9KB (Disk free space: 0 bytes)	

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\S	ource\SciEn	gLib\Time			_ & ×
File Edit View Go Favorites	Tools Help				
Name		Size	Туре	Modified	
CDateD.cpp		6KB	CPP File	9/17/01 11:41 AM	
CTimeDate.cpp		4KB	CPP File	9/17/01 11:41 AM	
CTimeMS.cpp		ЗКВ	CPP File	9/17/01 11:41 AM	П
			4		
					1
4					
*					
					▼
3 object(s)	10.7KB	Disk free space: 0	hudoo) [[]] Man	Committee	

FIG. 81

Exploring -D:\F	ЕМ В	uilder 1.2\S	Source\	SciEn	gLib\Units			_	×
File Edit View	<u>G</u> o	F <u>a</u> vorites	Tools	<u>H</u> elp			-		
Name					Size	Туре	Modified		lack
CUnitSystem.cpp					28KB	CPP File	9/17/01 11:41 AM	i	
									$\vdash$
							,		
									₩
1 object(s)			T2	7.2KB (	Disk free space: 0	bytes)	My Computer		

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

<u>File</u> <u>Edit View Go Favorites Tools He</u>	lp			
Name	Size	Туре	Modified	I
		File Folder	9/21/01 9:21 AM	ı
☐ Results		File Folder	9/21/01 9:21 AM	
Ablation-Stucture.unv	1,858KB	UNV File	9/17/01 11:34 AM	Ī
Ablation-Thermal-Aft.plt	415KB	PLT File	9/17/01 11:34 AM	- [
Ablation-Thermal-Fwd.plt	1,640KB	PLT File	9/17/01 11:34 AM	- 1
Axisym1.fdb	8KB	FDB File	9/17/01 11:34 AM	ı
Axisym1.fil	40KB	FIL File	9/17/01 11:34 AM	١
Axisym1.resinp	4KB	RESINP File	9/17/01 11:34 AM	ı
Axisym1.unv	11KB	UNV File	9/17/01 11:34 AM	
Axisym1BC.fdb	7KB	FDB File	9/17/01 11:34 AM	
Axisym1Caxa.fil	216KB	FIL File	9/17/01 11:34 AM	
Axisym1Caxa.inp	4KB	INP File	9/17/01 11:34 AM	
Axisym1CAXAResults.fdb	52KB	FDB File	9/17/01 11:34 AM	
Axisym1CentResults.fdb	31KB	FDB File	9/17/01 11:34 AM	
Axisym1Results.fdb	30KB	FDB File	9/17/01 11:34 AM	
BoundaryListCheck1.fdb	4KB	FDB File	9/17/01 11:34 AM	
CheckConnectivity.fdb	30KB	FDB File	9/17/01 11:34 AM	
ChemicalReaction.fdb	1KB	FDB File	9/17/01 11:34 AM	
ConcidentNodes.fdb	2KB	FDB File	9/17/01 11:34 AM	ŀ
Constrain2d.fdb	13KB	FDB File	9/17/01 11:34 AM	
Constrain3d.fdb	34KB	FDB File	9/17/01 11:34 AM	-
cp1d_bb.resinp	41KB	RESINP File	9/17/01 11:34 AM	L
cp1d_bb.resout	83KB	RESOUT File	9/17/01 11:34 AM	[

FIG. 83

Size	Туре	Modified	
7KB	RESINP File	9/17/01 11:35 AM	F
245KB	RESOUT File	9/17/01 11:35 AM	
8KB	RESINP File	9/17/01 11:35 AM	ı
246KB	RESOUT File	9/17/01 11:35 AM	
60KB	RESINP File	9/17/01 11:35 AM	
98KB	RESOUT File	9/17/01 11:35 AM	
61KB	RESINP File	9/17/01 11:35 AM	
96KB	RESOUT File	9/17/01 11:35 AM	
38KB	FDB File	9/17/01 11:35 AM	
140KB	FIL File	9/17/01 11:35 AM	
175KB	FDB File	9/17/01 11:35 AM	
16KB	FDB File	9/17/01 11:35 AM	
108KB	FIL File	9/17/01 11:35 AM	
6KB	INP File	9/17/01 11:35 AM	
32KB	FDB File	9/17/01 11:35 AM	
199KB	FIL File	9/17/01 11:35 AM	
13KB	INP File	9/17/01 11:35 AM	
113KB	FDB File	9/17/01 11:35 AM	
1,707KB	FIL File	9/17/01 11:35 AM	
44KB	INP File	9/17/01 11:35 AM	- 1
243KB	FDB File	9/17/01 11:35 AM	-
3,487KB	FIL File	9/17/01 11:35 AM	L
102KB	INP File	9/17/01 11:35 AM	
	245KB 8KB 246KB 60KB 98KB 61KB 96KB 38KB 140KB 175KB 16KB 108KB 6KB 32KB 199KB 13KB 113KB 1,707KB 44KB 243KB	245KB RESOUT File  8KB RESINP File  246KB RESOUT File  60KB RESINP File  98KB RESOUT File  61KB RESOUT File  96KB RESOUT File  96KB RESOUT File  140KB FILE FILE  175KB FDB File  16KB FDB File  16KB FDB File  108KB FIL File  108KB FIL File  118KB FDB File  1199KB FIL File  13KB INP File  13KB INP File  13KB INP File  13KB FDB File  1,707KB FIL File  44KB INP File  243KB FDB File  3,487KB FIL File  102KB INP File	245KB         RESOUT File         9/17/01 11:35 AM           8KB         RESINP File         9/17/01 11:35 AM           246KB         RESOUT File         9/17/01 11:35 AM           60KB         RESINP File         9/17/01 11:35 AM           98KB         RESOUT File         9/17/01 11:35 AM           96KB         RESOUT File         9/17/01 11:35 AM           96KB         RESOUT File         9/17/01 11:35 AM           38KB         FDB File         9/17/01 11:35 AM           140KB         FIL File         9/17/01 11:35 AM           175KB         FDB File         9/17/01 11:35 AM           108KB         FIL File         9/17/01 11:35 AM           6KB         INP File         9/17/01 11:35 AM           32KB         FDB File         9/17/01 11:35 AM           19KB         FIL File         9/17/01 11:35 AM           13KB         INP File         9/17/01 11:35 AM           13KB         FDB File         9/17/01 11:35 AM           1,707KB         FIL File         9/17/01 11:35 AM           44KB         INP File         9/17/01 11:35 AM           243KB         FDB File         9/17/01 11:35 AM           3,487KB         FIL File         9/17/01 11:35 AM

FIG. 84

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.	2\Test			Ĺ	B)
File Edit View Go Favorit	es <u>T</u> ools <u>H</u> el <sub>l</sub>	)			
Name		Size	Туре	Modified	1
Crack2DPS.fdb		32KB	FDB File	9/17/01 11:35 AM	F
Crack2DSFML.fdb		18KB	FDB File	9/17/01 11:35 AM	
Crack2DSFML.fil		104KB	FIL File	9/17/01 11:35 AM	
Crack2DSFML.inp		7KB	INP File	9/17/01 11:35 AM	
Crack2DSFMQ.fdb		37KB	FDB File	9/17/01 11:35 AM	
Crack2DSFMQ.fil		213KB	FIL File	9/17/01 11:35 AM	
Crack2DSFMQ.inp		15KB	INP File	9/17/01 11:35 AM	
Crack2DSZL.fdb		75KB	PDB File	9/17/01 11:35 AM	
Crack2DSZL.fil		1,065KB	FIL File	9/17/01 11:35 AM	
Crack2DSZL.inp		29KB	INP File	9/17/01 11:35 AM	
Crack2DSZQ.fdb		153KB	FDB File	9/17/01 11:35 AM	
Crack2DSZQ.fil		2,175KB	FIL File	9/17/01 11:35 AM	
Crack2DSZQ.inp		63KB	INP File	9/17/01 11:35 AM	
Crack3DFFSL.fdb		47KB	FDB File	9/17/01 11:35 AM	
Crack3DFFSL.fil		449KB	FIL File	9/17/01 11:35 AM	
Crack3DFFSL.inp	•	20KB	INP File	9/17/01 11:35 AM	
Crack3DFFSQ.fdb		128KB	FDB File	9/17/01 11:35 AM	
Crack3DFFSQ.fil		1,154KB	FIL File	9/17/01 11:35 AM	
Crack3DFFSQ.inp		62KB	INP File	9/17/01 11:35 AM	
Crack3DPS.fdb		114KB	FDB File	9/17/01 11:35 AM	
Crack3DSFMLfdb		58KB	FDB File	9/17/01 11:35 AM	
Crack3DSFML.fil		519KB	FIL File	9/17/01 11:35 AM	L
Crack3DSFML.inp		25KB	INP File	9/17/01 11:35 AM	
87 object(s)	49.2ME	(Disk free space: 0	bytes)	y Computer	

FIG. 85

Exploring -D:\FEM Builder 1.2\Test				В×
File Edit View Go Favorites Tools H	elp			
Name	Size	Туре	Modified	
Crack3DSFMQ.fdb	157KB	FDB File	9/17/01 11:35 AM	
Crack3DSFMQ.fil	1,333KB	FIL File	9/17/01 11:35 AM	
Crack3DSFMQ.inp	77KB	INP File	9/17/01 11:35 AM	
CrackSBRAMSubScaleAxial.fdb	296KB	FDB File	9/17/01 11:35 AM	1
CrackSBRAMSubScaleAxial.fil	2,097KB	FIL File	9/17/01 11:35 AM	- 1
CrackSBRAMSubScaleAxial.inp	127KB	INP File	9/17/01 11:35 AM	
CrackSBRAMSubScaleRadial.fdb	320KB	FDB File	9/17/01 11:35 AM	- 1
CrackSBRAMSubScaleRadial.fil	2,319KB	FIL File	9/17/01 11:35 AM	- 1
CrackSBRAMSubScaleRadial.inp	130KB	INP File	9/17/01 11:35 AM	
CrackSBRAMSubScaleRadial3D.fdb	1,230KB	FDB File	9/17/01 11:35 AM	
CrackSBRAMSubScaleRadial3D.fil	13,507KB	FIL File	9/17/01 11:35 AM	
CrackSBRAMSubScaleRadial3D.inp	673KB	INP File	9/17/01 11:35 AM	
CurveFit1.dat	1KB	Movie Clip	9/17/01 11:35 AM	
CurveFit2.dat	1KB	Movie Clip	9/17/01 11:35 AM	
CurveFit3.dat	1KB	Movie Clip	9/17/01 11:35 AM	
CurveFit4.dat	1KB	Movie Clip	9/17/01 11:35 AM	
CurveFit5.dat	1KB	Movie Clip	9/17/01 11:35 AM	
EdgeNotched2D.fdb	275KB	FDB File	9/17/01 11:35 AM	
EdgeNotched3D.fdb	594KB	FDB File	9/17/01 11:35 AM	
EditColor.fdb	9KB	FDB File	9/17/01 11:35 AM	
ElementDistortion2D.fdb	3КВ	FDB File	9/17/01 11:35 AM	
ElementDistortion3D.fdb	5KB	FDB File	9/17/01 11:35 AM	
Example4.fdb	47KB	FDB File	9/17/01 11:35 AM	lacktriangle
187 object(s) 49.2	MB (Disk free space: 0	bytes) My	Computer	

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☐ Exploring -D:\FEM Builder 1.2\Test				8
File Edit View Go Favorites Tools H	elp			
Name	Size	Туре	Modified	1
InterfaceFemDB_1.fdb	13KB	FDB File	9/17/01 11:35 AM	F
InterfaceFemDB_2.fdb	15KB	FDB File	9/17/01 11:35 AM	
InterfaceIdeas_1.unv	31KB	UNV File	9/17/01 11:35 AM	<u> </u>
LessFluid.fdb	1,507KB	FDB File	9/17/01 11:35 AM	
LessFluid-CustomSolve.jou	1KB	JOU File	9/17/01 11:35 AM	
LessSolid.fdb	620KB	FDB File	9/17/01 11:35 AM	
LineElement.fdb	2KB	FDB File	9/17/01 11:35 AM	
MatProp1.pdb	2KB	PDB File	9/17/01 11:35 AM	ı
MatProp2.pdb	1KB	PDB File	9/17/01 11:35 AM	
MeshSurface.fdb	20KB	FDB File	9/17/01 11:35 AM	
MeshVolume.fdb	24KB	FDB File	9/17/01 11:35 AM	
MixingElbow.cas	129KB	CAS File	9/17/01 11:35 AM	
MixingElbow.dat	212KB	Movie Clip	9/17/01 11:35 AM	
MixingElbow.fdb	657KB	FDB File	9/17/01 11:35 AM	1
Nozzle1.jou	1KB	JOU File	9/17/01 11:35 AM	- 1
Nozzle1_ascii.cas	263KB	CAS File	9/17/01 11:35 AM	
Nozzle1_ascii.dat	980KB	Movie Clip	9/17/01 11:35 AM	1
NozzleModel.cas	172KB	CAS File	9/17/01 11:35 AM	1
Nozzle Model. dat	365KB	Movie Clip	9/17/01 11:35 AM	
P&NRegions.fdb	4KB	FDB File	9/17/01 11:35 AM	
PipeFlow.cas	28KB	CAS File	9/17/01 11:35 AM	
PipeFlow.dat	11KB	Movie Clip	9/17/01 11:35 AM	
PipeFlow.fdb	7KB	FDB File	9/17/01 11:35 AM	
87 object(s) 49.2	MB (Disk free space: 0	bytes)	Computer	

FIG. 87

Exploring -D:\FEM Builder 1.2\Test				. B
File Edit View Go Favorites Tools H	elp			
Name	Size	Туре	Modified	
PlaneE1.fdb	8KB	FDB File	9/17/01 11:35 AM	F
PlaneE1.fil	30KB	FIL File	9/17/01 11:35 AM	
PlaneE1.inp	3KB	INP File	9/17/01 11:35 AM	ľ
PlaneE1.unv	12KB	UNV File	9/17/01 11:35 AM	
PlaneE1G.fdb	9KB	FDB File	9/17/01 11:35 AM	
PlaneE2.fdb	43KB	FDB File	9/17/01 11:35 AM	
PlaneE2.fil	223KB	FIL File	9/17/01 11:35 AM	
PlaneE2.resinp	16KB	RESINP File	9/17/01 11:35 AM	
PlaneE2F.fdb	152KB	FDB File	9/17/01 11:35 AM	
Plane E2Funv	159KB	UNV File	9/17/01 11:35 AM	
PlaneS1.fdb	10KB	FDB File	9/17/01 11:35 AM	
PlaneS2.fdb	65KB	FDB File	9/17/01 11:35 AM	
PlaneS2.fil	386KB	FIL File	9/17/01 11:35 AM	
RdAschar.plt	79KB	PLT File	9/17/01·11:35 AM	
RdCCM_1.ccmout	2KB	CCMOUT File	9/17/01 11:35 AM	
RdCDCA_1.cdcout	67KB	CDCOUT File	9/17/01 11:35 AM	
RWAnsys1.cdb	20KB	CDB File	9/17/01 11:35 AM	
RWAnsys2.cdb	7KB	CDB File	9/17/01 11:35 AM	
RWIdeas1.unv	185KB	UNV File	9/17/01 11:35 AM	
SBRAMSubScale.fdb	242KB	FDB File	9/17/01 11:35 AM	
SelectByRegion.fdb	4KB	FDB File	9/17/01 11:35 AM	
SelectCurve.fdb	14KB	FDB File	9/17/01 11:35 AM	L
SelectGroup.fdb	15KB	FDB File	9/17/01 11:35 AM	[

FIG. 88

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

Exploring -D:\FEM Builder 1.2\	Test				- Pi×
File Edit View Go Favorites	Tools Help				
Name		Size	Туре	Modified	<b>A</b>
Example4.fil		246KB	FIL File	9/17/01 11:35 AM	
Example4.inp		16KB	INP File	9/17/01 11:35 AM	
Example4Ffdb		33KB	FDB File	9/17/01 11:35 AM	
ExpCurve.dat		2KB	Movie Clip	9/17/01 11:35 AM	
fdv.nam		1KB	NAM File	9/17/01 11:35 AM	
fdv.xyz		5KB	XYZ File	9/17/01 11:35 AM	
fdv0001.dat		14KB	Movie Clip	9/17/01 11:35 AM	
fdv3d.nam		1KB	NAM File	9/17/01 11:35 AM	
fdv3d.xyz		28KB	XYZ File	9/17/01 11:35 AM	
fdv3d0001.dat	*	91KB	Movie Clip	9/17/01 11:35 AM	
FluidCFD1.fdb		. 8KB	FDB File	9/17/01 11:35 AM	
FluidCFD1.inp		3КВ	INP File	9/17/01 11:35 AM	
Geometry.fdb		22KB	FDB File	9/17/01 11:35 AM	ı
GeometryEdit_1.fdb		3КВ	FDB File	9/17/01 11:35 AM	
GridGen.grd		6KB	GRD File	9/17/01 11:35 AM	
GridGen.p3d		23KB	P3D File	9/17/01 11:35 AM	
Heat0.fdb		8KB	FDB File	9/17/01 11:35 AM	
Heat0.sot		11KB	SOT File	9/17/01 11:35 AM	
Heat1.fdb		9KB	FDB File	9/17/01 11:35 AM	
Heat1.sot		4KB	SOT File	9/17/01 11:35 AM	
HTAxisym1.fdb		8KB	FDB File	9/17/01 11:35 AM	
InsertFlawLinear.fdb		35KB	FDB File	9/17/01 11:35 AM	L
InsertFlawQuadratic.fdb		69KB	FDB File	9/17/01 11:35 AM	▼
187 object(s)	49.2MB (	Disk free space: 0	bytes)	ly Computer	

FIG. 89

File Edit View Go Favori	tes <u>T</u> ools <u>H</u> elp				
lame		Size	Туре	Modified	
sharp.plt		6KB	PLT File	9/17/01 11:35 AM	ı
SinGen.gin		27KB	GIN File	9/17/01 11:35 AM	- 1
SinGen.out		1,009KB	OUT File	9/17/01 11:35 AM	ı
Smooth2d_1.fdb		17KB	FDB File	9/17/01 11:35 AM	ı
Smooth2d_2.fdb		16KB	FDB File	9/17/01 11:35 AM	
Smooth2d_3.fdb		54KB	FDB File	9/17/01 11:35 AM	
Solid 1L.fdb		9KB	FDB File	9/17/01 11:35 AM	- 1
Solid1L.fil		53KB	FIL File	9/17/01 11:35 AM	- 1
Solid1L.resinp		4KB	RESINP File	9/17/01 11:35 AM	-
Solid 1L.unv		13KB	UNV File	9/17/01 11:35 AM	
Solid1Q.fdb		20KB	FDB File	9/17/01 11:35 AM	
Solid1Q.fil		133KB	FIL File	9/17/01 11:35 AM	-
Solid1Q.resinp		10KB	RESINP File	9/17/01 11:35 AM	
Solid1Q.unv		· 1KB	UNV File	9/17/01 11:35 AM	
SolidCFD1.fdb	•	9KB	FDB File	9/17/01 11:35 AM	ı
SolidCFD1.inp		ЗКВ	INP File	9/17/01 11:35 AM	
StructuralGrid.fdb		35KB	FDB File	9/17/01 11:35 AM	
TexChem_1.fdb		9KB	FDB File	9/17/01 11:35 AM	
TexChem_1.spatial		13KB	SPATIAL File	9/17/01 11:35 AM	
ThermalGrid.unv		8KB	UNV File	9/17/01 11:35 AM	
UnitCube.fdb		7KB	FDB File	9/17/01 11:35 AM	
UnitSquare.fdb		3КВ	FDB File	9/17/01 11:35 AM	ļ

FIG. 90

Inventor: Iverson et al. Serial No.: 10/005,752 Docket No.: 2507-5744.1US

☐ Exploring -D:\FEM Builder 1.2\Test				~ 입
<u>File</u> <u>Edit</u> <u>View</u> <u>G</u> o F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp			
Name	Size	Туре	Modified	
SelectN,E,Ffdb	8KB	FDB File	9/17/01 11:35 AM	
SelectSurface.fdb	14KB	FDB File	9/17/01 11:35 AM	
SelectSurface1.fdb	14KB	FDB File	9/17/01 11:35 AM	
SelectVolume.fdb	14KB	FDB File	9/17/01 11:35 AM	
sharp.plt	6KB	PLT File	9/17/01 11:35 AM	
SinGen.gin	27KB	GIN File	9/17/01 11:35 AM	
SinGen.out	1,009KB	OUT File	9/17/01 11:35 AM	
Smooth2d_1.fdb	17KB	FDB File	9/17/01 11:35 AM	
Smooth2d_2.fdb	16KB	FDB File	9/17/01 11:35 AM	
Smooth2d_3.fdb	54KB	FDB File	9/17/01 11:35 AM	
Solid1L.fdb	9KB	FDB File	9/17/01 11:35 AM	-
Solid1L.fil	53KB	FIL File	9/17/01 11:35 AM	
Solid1L.resinp	4KB	RESINP File	9/17/01 11:35 AM	
Solid1L.unv	13KB	UNV File	9/17/01 11:35 AM	
Solid1Q.fdb	20KB	FDB File	9/17/01 11:35 AM	
Solid1Q.fil	133KB	FIL File	9/17/01 11:35 AM	
Solid1Q.resinp	10KB	RESINP File	9/17/01 11:35 AM	
Solid1Q.unv	1KB	UNV File	9/17/01 11:35 AM	
SolidCFD1.fdb	9KB	FDB File	9/17/01 11:35 AM	
SolidCFD1.inp	3КВ	INP File	9/17/01 11:35 AM	
StructuralGrid.fdb	35KB	FDB File	9/17/01 11:35 AM	
TexChem_1.fdb	9KB	FDB File	9/17/01 11:35 AM	L
TexChem_1.spatial	13KB	SPATIAL File	9/17/01 11:35 AM	
B7 object(s) 4	9.2MB (Disk free space: 0	bytes) DMy Comput	ter	

FIG. 91

☐ Exploring -D:\Recess				라>
File Edit View Go Favorites Tools Help				
Name	Size	Туре	Modified	<b>A</b>
Recess.bat	1KB	MS-DOS Batch File	9/19/01 2:57 PM	
☐ Recess.exe	5,089KB	Application	3/1/01 12:57 PM	
RecessUser.doc	19KB	Microsoft Word Doc	9/19/01 9:35 AM	
RecessW.exe	24KB	Application	9/19/01 3:16 PM	
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object(s) 5.01MB (Dist		bytes)		